	40 00	20 40
QUERY	10 20 I P E Y V D W R Q K G A V T P V K N Q G S C G	30 40 SCWAFSAVVITIEGIIKI
UniRef90_A7Y7Y0		S C WAFSTV V A V E G I N Q I
UniRef90_B8LMA7	L	S C W A F S T A S V E G N Y G C W A F S A V A A M E G N K
UniRef90_K3Y294 UniRef90_D0VEB8	V	SCWAFSTI VAVEGINKI
UniRef90_M0U9W7	LP S S V D W R D K R A V T G V K N Q G H C G	S C WAFSAV A A V E GI N QI
UniRef90_W0USY1	P P S V D WR Q K G A V T A V K N Q G Q C G	S C WA F S T I A A V E G I N Q I
UniRef90_I1J446 UniRef90_UPI00032A6241	L P D S I D W R Q K G A V T P I K N Q G S C G V P S S V D W R K K G A V T K V K D Q G Q C G	CCWAFSAI AATEGI HKI SCWAFSTI VAVEGI NQI
UniRef90_O65493		S <mark>C</mark> WAFSTV <u>A</u> AVEGINQII
UniRef90_W9RKI3	LPTSVDWRKKGAVTGIKDQGNCG _PSSVDWRKNGAVTGIKDQGKCG	S
UniRef90_B9HLD6 UniRef90_T1J339	EPKSVDWRKKGYVTPVKNQGQCG	S
UniRef90_B9I1N0	VPSTMDWRKKGAVTPI KDQGQ <mark>C</mark> G	CCWAFSAVAATEGITQL
UniRef90_Q6F6A4 UniRef90_A9UX29	V P S S M D W R K K G A V T P V K D Q G Q C G D S V D W R T K G A V T P I K N Q G Q C G	S
UniRef90_UPI000234F5C4	LPKDVDWRKKGAVVEVKNQGSCG	S C WAFSAVAAMEGLNQI
UniRef90_A0A024GJP0	L P A S I D WVE K G A V T G V K N Q G M C G V P A S V D WR Q K G A V T D V K D Q G Q C G	SCWAFSTTGAI EGATFII
UniRef90_B6TLR1 UniRef90_B4FS90	V	S
UniRef90_Q40991	L P A S I D WR Q K G A V T A V K D Q G Q C G	S C WAFSTVAAVEGINQII
UniRef90_Q5K4K7 UniRef90_Q9LT77	L P E S V D W R E K G A V A P V K N Q G Q C G L P A S I D W R Q K G A V T A V K D Q G Q C G L P D S V N W R D H G A V S R V K D Q G S C G L P D E V D W R A N G A V V S V K D Q G N C G	S
UniRef90_U5GKD1	I P T S MD WR K A G A V T P V K D Q G T C G L P E T V D W K L N G A V N P V K D Q G S C G	CCWAFSAVAAI EGI TKL
UniRef90_W9QU40	LPETVDWKLNGAVNPVKDQGSCG	S C WAFSTLAAVEGINKI
UniRef90_K4BVG7 UniRef90_M4EXW8	P S S L D W R D K G A V T N V K N Q G S C G	A C WS F S A T G A I E G I N K I S C WA F S T I G A V E G I N K I .
UniRef90_K7UE86	I P D A I D WR OI G A V T F V K D O O C G	GCWAFSAVAALEGINAII
UniRef90_V5K5R5 UniRef90_UPI0003D2975D	P F M V D W R K K G A V T P I K D Q K D C G P F M V D W R K K G A V T R I K D Q G Q C G	CCWAFSAVAAMESLHQL CCWAFSAVAAIIEGLNKI SCWAFSTVAAVEGINQI DCWAFSAVAAMEGITMI
UniRef90_UPI0003D2973D	LPWVVDWRKKGAVTPVKNQGECGIPAALDWRTKKAVTPVKDQGECG	S C WA F S T V A A V E G N Q I
UniRef90_A0A059CCE2	I PAALDWRTKKAVTPVKDQGG <mark>C</mark> G	DCWAFSAVAAMEGI TMI
UniRef90_R0H3G6 UniRef90_M4EPC6	L	S
UniRef90_M4FAU3	II IP D FIVID WR A K G AIVIA PIVIR D Q G D C G	SSWAFSTTGAILIFGILINKILL
UniRef90_UPI00042B8B63 UniRef90_T2BQ67	V P T S L D WR E K G A V T A V K D Q G D C G L P D S V D WR K K G V L V D V K N Q G Q C G	C C W A F A A V A A V E G I N Q I S C W A F S A V A S I E A V N K I
UniRef90_R0HB78	L P K S V D WR N E G A V T E V K D Q G Y C R	S C WAFSTVGAVEGLNKI
UniRef90_J9QJ79 UniRef90_Q84M27	L P K A V D W R K K G A V T P V K D Q G Q C G _ P P S L D W R T N G A V N P I K N Q G R C G	S C WA F S T V G A V E G L N K I S C WA F S A T G S L E G Q H F L S C WA F S T I V G V E G I N K I
UniRef90_UPI00032A9E5F	IVIPAI MIDWRFRGAIVII PII KNGYD <mark>G</mark> G	SCWAFAIIVIAAII IE GII I II GII I
UniRef90_G0YWA7	L P L A V D W R K K G A V T P I K N Q G S <mark>C</mark> G	CCWAFSAVAAI EGATQII
UniRef90_UPI0003D74C38 UniRef90_J3M392	L P D S V D W R K K G A V A E V K D Q G S C G V P K E M D W R K K G A V T E V K N Q G Q C G	S
UniRef90_L5MDA5	PDS TDYRKKGYVT PVKNQGQCG	S <mark>C</mark> WAFSSVGALEG <u>QL</u> M <u>K</u>
UniRef90_I1LR49 UniRef90_F6H4X5	V	S
UniRef90_Q7F3A8	LPRAVDWRRKGAVTGVKDQGK <mark>C</mark> G	S C WAFSTVVSVEGLNAL
UniRef90_A0A023ENZ2 UniRef90_K8FEG6	FPTTVDWRKKGAVTPVKDQGHCG PESIDWVDEGVITTPKNQGSCG	SCWAFSTVAAVEGINKI SCWAFSTVVSVEGINAI SCWSFSATGALEGQHFR SCWAFSAIGAVEGINAI SCWAFSTTGAVEGANAI SCWAFSTTGAVEGANAI
UniRef90_E1Z3J4	PEEVDWVAGGAVTPVKDQLLCG	SCWAFSTTGAVEGANAI
UniRef90_A0A059CCF5	I P R C I D WVA K G A V N A I K N Q G Q C G	S C WAFSAVAALE S T Q I
UniRef90_Q2QU43 UniRef90_W9SNT1	L P A S V D WRT K G A V T R I K D Q G Q C G V D WT K N G A V T P V K Q Q G Q C G	CCWAFSAVAAMEGFVKL CCWAFSAVGAVEGITKI
UniRef90_UPI00042B69BA	LSTYLDWREKGAVTPLKDQGQCG	SCWAFSAVAAI EGLGKL
UniRef90_UPI0003AF76BE UniRef90_J3JY43	I P D T V D W R D R G Y V T P V K D Q R Q C G	SCWSFSATGALESQHFR
UniRef90_A9Z0S7	I P D T V D WR N S S Y V T V V K D Q G Q C G	S C W A F S A T G A L E G Q H M R
UniRef90_UPI00042B63D4 UniRef90_UPI0002B47531	I PASMDWRIKGAVIKVKDQGSCG	SCWAFSTWASVEALNOL
UniRef90_Q40922	LPESLDWREKGAVTAVKNQGS <mark>C</mark> G	Š Č WA F Š T V A A V E GI N ČI
UniRef90_G7IM76 UniRef90_C5X5T3	PASVDWRASGAVTPVKNOGPC	SCWAFATVAVVEGIVOI
UniRef90_M5XDT9	P D S V D WR K E G V V N P I K D Q G S C G	Š <mark>Č</mark> WAFĀTĽŠŠVĒĞĹNKĹ
UniRef90_A0A023FLG3 UniRef90 Q5ILG5	L P K T V D WR Q K G A V T P V K N Q G Q C G	SCWAFSTTGSLEGQHFR SCWAFAAIIAAIVEGINOI
UniRef90_K3Y8C8	PNYVDWRTKGAVTPVKDQQQCG	S C WA F A A V A S I E G V H K I I
UniRef90_Q40993	L PVSVDWR GALTPIKNQGS <mark>C</mark> G	A C WA F S A V A A V E A I N K I
UniRef90_A5HII3 UniRef90_UPI00045D9B77	I P K S V D W R Q K G Y V T P V K D Q G Q C G	S C WAFSAT GALLE G Q M F R
UniRef90_Q27759	LPKEVDWRTKGAVTPVKDQKQ <mark>C</mark> G	S C WAFSTTGS L E G Q H F L
UniRef90_UPI0002C57112 UniRef90_O18455	F S S V D W R D K G W V T F V K N O G M C G	SCWAFSATGAILEGQMFR
UniRef90_A0A058ZWJ5	I PESVDWVKQGAVNPIKNQGQ <mark>C</mark> G	S C WS F S V V A A V E A Î T Q Î
UniRef90_A2I408 UniRef90_W5BJ07	V P D S V D W R T E G A V T E V K N Q G Q C G	C C WAFSAWAATEGI VKI
UniRef90_E5LEX0	LPAEVDWRTKGAVTPVKDQKACG	S C WAFSAT G S L E G Q H F L
UniRef90_B3RS81	MPTEIVID WRKEGYIVIT PII KNQGR <mark>C</mark> G	SCWAFSTTGSLEGQHFR
UniRef90_R4N047 UniRef90_S8C022	VPSSIDWRKKGAVTGIKDQGGCG	ACWSFSATGAILEGINQI
UniRef90_F2E5Q3	L P D T V D WR D K G Y V T D V K D Q G Q C G	S C WAFSTTGALE G Q H F K
UniRef90_O22499 UniRef90_T1H868	L P E S V D W R C R G A V A E V K D Q G Q C G	SCWAFSATGSI FGOI FI
UniRef90_A7RPY5	LPAEVDWRDKGFVTAVKNQGQ <mark>C</mark> G	S C WAFSSTGSLEGQHFR
UniRef90_UPI00038EDEF9 UniRef90_I3K9F7	IL IP K S IV ID WR E K G Y IV IT P IV IK N Q G Q C G	S C W A F S A T G S L E G Q M F R
UniRef90_UPI00026588EE	VPDQIDWRDQGFVTPVKNQGQCG	SCWAFSAVGSLEGQHFK
UniRef90_022961	ESKDWRAEGAVTPVKYQGQCG	C C WAFSAVAAVE GVAK
UniRef90_K1RPX1 UniRef90_S4S197	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	S C WAFSAI G S L E G Q Y F R S C WAFSTTGS L E G Q H K R
UniRef90_G9F9V4	LPKSVDWRQKGAVTPVKDQGQ <mark>C</mark> G	Š <mark>Č</mark> WSFŠAŢĞŠĿĖĞĞÜFÜ
UniRef90_M0T6Q9	PSS I D WR N K G A V T P V K D Q T T <mark>C</mark> G	A C WAFSAVASMESIINKI

Jinkergo AYYYYO		EC	1	60 70 90
Iniriergo	QUERY	RTGNLNQYSE	, Q E L L D <mark>C</mark>	D R R S Y G <mark>C</mark> N G <u>G</u> Y P W S A L Q L <u>V</u> A Q Y G []
Jinkergo CoyUNEB8	UniRef90_A7Y7Y0	KTKKLVSLSE	QELVDC	DTNQG <mark>C</mark> NGGLMDPAFDFLKKRGGII
Iniriergio DOVEBB		ATGKI VSI SE	Q Q L V D C	DRSHG <mark>C</mark> KGGRMDYAFQYIINGGI
Inirier90	UniRef90_D0VEB8	RTGRLVSLSE	QELMDC	N E N D G <mark>C</mark> N G G L M D V A F Q F I
Jinkel90	UniRef90_M0U9W7	RTNELVPLSE	QELVNC	DKQDHG <mark>C</mark> RGGLMDYAFEFILKNGGII
Iniririririririririririririririririririr		KIKNLVSLSE	QELIDO	DINQG <mark>C</mark> RGGYMDGAFKFII <u>K</u> KNGGII
Iniririririririririririririririririririr	UniRef90_UPI00032A6241	KTQKLVSLSE	Q E L V D C	D N K N E G C N G G L M E Y A F E F I K Q N G I
Inirie690_065F644	UniRef90_O65493	TTGNLSSLSE	QEILIDC	D T N S G <mark>C</mark> N G G L M D Y A F Q Y I <u>I </u> S T G G L
Iniririef90_06F604 ATGNLVBLSEQELVDCDKTGGCGGGMGGLMDDAFDFILQNKGLDIRRE690_06F604 ATGNLVSLSEQELVDCDKTGGCGGGMMEDAFECH ATGNLVSLSEQELVDCDKTGGCGGGMMEDAFECH ATGNLVSLSEQELVDCDAFGGGGGMMEDAFECH ATGNLVSLSEQELVDCDAFGGGGGMMEDAFFCH ATGNLVSLSEQELVDCDAFGGGGGMMEDAFFCH ATGNLVSLSEQELVDCDAFGGGGMDHAFFSWWSEHEGI Iniririef90_08TR1 ATGNLVSLSEQELVDCDAFGGGGMDHAFFSWWSEHEGI Iniririef90_08TR1 ATGNLVSLSEQELVDCDAFGGGGMDHAFFSWWSEHEGI Iniririef90_08TR1 ATGNLVSLSEQELVDCDAFGGGGMDHAFFSWWSEHEGI Iniririef90_08TR1 ATGNLVSLSEQELVDCDAFGGGGMDHAFFSWWSEHEGI Iniririef90_08TR1 ATGNLVSLSEQELVDCDAFGGGGMDHAFFSWWSEHEGI Iniririef90_08TR1 ITGNLVSLSEQELVDCDAFGGGGMDHAFFSWWSEHEGI Iniririef90_08TR1 ITGNLVSLSEQELVDCDAFGGGGMDHAFFSWWSEHEGI Iniririef90_08TR1 ITGNLVSLSEQEGMDHAFFSWWSEHEGI Iniririef90_08TR1 ITGNLVSLSEQEMDHAFFSWWSEHEGI ITGNLVSLSEQEMDHAFFSWWSEHEGI ITGNLVSLSEQEMDHAFFSWWSEHEGI Iniririef90_08TR1 ITGNLVSLSEQEMDHAFFSWWSEHEGI Iniririef90_08TR1 ITGNLVSLSEQEMDHAFFSWWSEHEGI ITGNLVSLSEQEMDHAFFSWS		K I K E L M P L S E	Q E L V D C	SKNNG <mark>C</mark> DGGLMQDAFEFIKQHGGI
Inirie690_065F644	UniRef90_T1J339	KTGALVSLSE	QNLVDC	SYLNHG <mark>C</mark> NGGIMDYAFQYIKKNG <u>G</u>
Iniririefgo_ADA0024GJPO	UniRef90_B9I1N0	STGKLISLSE	QELVDC	D T S G G C N G G L M D D A F D F I I Q N K G L
Iniririefgo_ADA0024GJPO	· · . · . - . · · · · .	ATGNI VSI SE	Q E L V D C	S G S F G N O G C N M D D A F K Y I I I S N K G I
Interest	UniRef90_UPI000234F5C4	KNGKLVSLSE	QELVDC	DAFAG <mark>C</mark> AGGEMSWAFFFIVIMANHGII I
Interest		SSGKLVSLSE	QELVD	DHNGDHG <mark>C</mark> SGMDHAFSWVSEHEGII
Inirire(f)0_U5GKD1	UniRef90_B4FS90	VTGEMVTLSE	QELVEC	S T D G G N S G C N M D A A F D F K N G G
Inirire(f)0_U5GKD1	UniRef90_Q40991	KTKKLLSLSE	QELIDO	DTDENNG <mark>C</mark> NGMDYAFDFI KKNGGI
Iniref90		VISGELI SILSE	Q E L V D C	DRSYG <mark>C</mark> NGG L MDYAFQF II DNGG I
Iniref90	UniRef90_U5GKD1	KT GKL I SLSE	QQLVDC	DÜK GÜD Q G <mark>C</mark> GMDNAFQF I ÜRNGGL
Inire	UniRef90_W9QU40	YT GEL VISILIS E	QEL VES	DRAYNAG <mark>C</mark> DGMDYAFEF V KNGG
Interest	UniRef90_M4EXW8	T G D L I S L S E	ă E L VID	DTSYNQGCNGMDYAFEFII I KNGGII
Inire	UniRef90_K7UE86	ATGNLVSLSE	QEI I DC	DQDSG <mark>C</mark> DGGQMENAFRFVLGNGGI
Juire 190		KIGKLNPLSE KIGKLISISE	GEL VID	DSNEGCEGGI MDYAFKEI I KNNGI
Juire 190	UniRef90_UPI000234FE62	A T Ğ K L E S L S E	Q E L MD C	DŤDĦĞ <mark>Č</mark> ĠĞĞĒMDFAFAY MĠNŪĞ
JniRef90_MfAU3	UniRef90_A0A059CCE2	KKGKLVPLSV	IQEIL VIR <mark>o</mark>	D D N D G C M G G L M D S A F E F L V S N G G L
JniRef90_MfAU3	UniRef90_R0H3G6 UniRef90_M4EPC6	KTGNLVSLSE		D F N K G C S G G L L T T A Y E Y L I P N G G L
JniRef90_T2BQ67	UniRef90_M4FAU3	KTGE LI T L S V	IQ E IL V ID C	D R G Y N D G <mark>C</mark> N G M D A A F L F A N G G L
JniRef90_ROHB78		MTGNIISISE	Q Q V L D C	D T N O G C O G G I M D D A F K F V I O N G G I
JniRef90_J9QJ79	UniRef90_R0HB78	VIT GEIL VITILIS E	Q D L I N C	N K E N N G <mark>C</mark> G G G K V E T A Y E F I M N N G G
JniRef90	UniRef90_J9QJ79	KNGELVSLSE	Q NIL VID C	S G N N G C E G G L M E D A F K Y L K A N D G L
JniRef90 G0YWA7	UniRef90 UPI00032A9E5F	STGKILVISILISE	Q E IL V ID C	G N S Y G C S G G Y S E D A Y E F V K K G G
JniRef90_ J3M392	UniRef90_G0YWA7	KKGKLI SLSE	Q Q L V D C	D T N D F G C S G G L L D A F E H I MAT G G L
JniRef90_I1LR49		VITGNITSISE	Q E L V D C	STDGNNGCSGMDYAFEFII DNGGII
JniRef90_F6H4X5	UniRef90_L5MDA5	KTGK LL N L SP	QNLVDC	VSENDG <mark>C</mark> GGGYMTNAFQ <u>YQ</u> RNRGI
IniRef90_Q7F3A8		TTGELISLSE RTGKLVSLSE	QELIDO	DTNGDNGG <mark>C</mark> KWQEAFKFII VQNKGL
JniRef90_K8FEG6 R T G K L V S L S E Q E L V S C A R E G G N Q G C N M D N A F E WI V E N G G V JniRef90_E1Z3J4 A T G K L V S L S E Q M L V D C D R E Y G C R G G F M D S A F D F I V N N G G I JniRef90_A0059CCF5 K T G K L L E L S E Q Q L V D C L K N S G C S R G W M D T A F D Y T I Q N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G K L L S L S E Q E L D C A F D F L S N G G I JniRef90_A0059CCF5 S T G M D T JNIREF90_A0059CCF5 S T G M D T JNIREF90_A0059CCF5 S T JNIREF90_A0059C	UniRef90_Q7F3A8	RTGRII VISII IS F	OFILLIDO	D T N S G C O G G I M E N A F F Y I K H S G G I
Illine	UniRef90_A0A023ENZ2	KTGKLVSLSE	Q N L V D C	S G K Y G N N G C M M D Y A F Q Y I K D N G G I
Jinkergo	UniRef90_K6FEG6 UniRef90_E1Z3J4	ATGKLVSLSE	Q ML VD C	DREYGCRGGFMDSAFDFI VNNGGI
Interest	UniRef90_A0A059CCF5	KTGKLLELSE	QQLVDC	KNSG <mark>C</mark> SRGWMDTAFDYŢI QNGGI
Initial		KRDKI VSI SA	Q E L V D C	SKNGNNG <mark>C</mark> SGGMDNAFFYIKOHGI
IniRef90_JP1000328F6BE	UniRef90_UPI00042B69BA	KTGELTSLSE	Q E L L D C	D V N N G C K G G Y M E K A Y E F F L K N G G I
Mirkef90	UniRef90_UPI0003AF76BE	KTGKLVSLSE	QQLMD	S G N N G C K G G S V K R A F Q Y I Q A N G G I I
Junker90	UniRef90_A9Z0S7	KTHQLVSLSE	QNLVDC	S R K Y G N N G C N M D N A F E Y I K D N H G I
MinRef90_Q40922	UniRef90_UPI00042B63D4	VIT GTIL VISILIS E	QEL VD	DRSYNSG <mark>C</mark> EGMDYAYQF VI DN <mark>H</mark> G
Jinkef90_C5X5T3	UniRef90_Q40922	VT GNL TSLISE	ă E L V L	DTSYNQG <mark>C</mark> NG <u>M</u> DYAFQF I SNGGL
	UniRef90_G7IM76	TTGRLVSLSE	QEL VID	NTTDGCNGGYVEDACDFII YKKGGII
JniRef90	UniRef90_C5X5T3 UniRef90_M5XDT9	T G DL LISLIS E	ZEL VID	DKTYNEGCNGMDYAFEFII I SNGGII
WILLERSON_CASTROS WILL S L S L Q L V D C S K N Y G C G G W Y K A F Q F N N G G L M D C A M A W A R N G G L M D A A M A W A R N G G L M D A A M A W A R N G G L M D A A M A W A R N G G L M D A A M A W A R N G G L M D A A M A W A R N G G L M D A A M A W A R N G G L M D M A M	UniRef90_A0A023FLG3	KSGKMVSLSE	Q N L V D C	STSFGNNGCEMDNAFKYLKANGGL
JniRef90_Q40993		KTGRLVSLSF	Q E I VID	DRGGNDHG <mark>C</mark> HGGYAMAWVARNGGI
JINKet90_A5HII3	UniRef90_Q40993	VIGSLVSLSE	QELVDC	DRNKG <mark>C</mark> NGGNQŬNAYRFII VENGGL
IniRef90		VII GNL I SLSE	C F L V D C	GKIQG <mark>U</mark> DGGYMTDGFEF I NNGG SRPQGNEG <mark>C</mark> NMDYAFQVI KENGG
JniRef90_UP10002C57112	UniRef90_Q27759	KDĞKLVSLSE	QNLVDC	S D K F G N M G C M M D Q A F R Y L K A N K G L
D	UniRef90_UPI0002C57112	KTGKLVSLSE	QNL VD	S R S Q G N E G C G L M D Y A F Q Y V K D N G G
JniRef90	UniRef90_018455 UniRef90_A0A058ZWJ5	TTGVLPNLSE	QQLIDO	D G N Q G C Q G G WM D N G F K Y MI N N N G I
NIRGE90	UniRef90_A2I408	NIKQLISLSE	ONF UP	S G K Y G N N G C S M D N A F A Y T K S N K G I
IniRef90 B3RS81		K D G K I V S I S F	ONI VID	STKQGDHG <mark>C</mark> GMDFAFTYI KNAGGL
JAIREP90_RANO47	UniRef90_B3RS81	KŢĞĶĹŸŠĹŠĖ	QNLIDO	S G N D G C G G G F M D D A F E Y L K L N N G L
JuiriRef90_C22499 JuiriRef90_T1H868 JuiriRef90_T1H868 JuiriRef90_Juplo0038EDEF9 JuiriRef90_Juplo003E0588EE JuiriRef90_Juplo003E0588EE JuiriRef90_S4S197 JuiriRef90_K1RPX1 JuiriRef90_K1RPX1 JuiriRef90_G9P9V4 JuiriRef90_G9P9V4 JuiriRef90_M0076Q9 JuiriRef90_M0076Q9	UniRef90_R4N047	KTGQLVSLSE	QQLVD	S G R Y G N K G C G N V N E A F K Y V Q A V G G
JniRef90_O22499	UniRef90_58C022 UniRef90_F2E5Q3	T GKL VISILIS E	ă n L V D C	S G K Q G N M G C N M D Q A F E Y II K E N N G II
Julikef90_L1 H808	UniRef90_O22499	VT GSLISLSE	Q EIL HID C	DKDQG <mark>C</mark> DGGLMDNAFVFMLKNGĞİ
JniRef90_UP100038EDEF9		KIGHLVSLSE KIGKIVSISE	ONI VID	S
JniRef90_I3K9F7		KŢĞĹĹŸPĹŠĖ	QNLVDC	S R A Q G N Q G C G L M D F A F E Y V K E N K G
A G G N L V S L S E Q Q L L D C D R E Y G C D G G W S D A F N Y V V Q N R G I	UniRef90_I3K9F7	KTGTLVSLSE	QQLVD	S G D Y G N M G C M M D Y A F Q Y I Q A N G G I
JniRef90_K1RPX1 KNGK LVPL SESQ LVDCSGSFGNEGCNMENAFKYVKSVGGII JniRef90_S4S197 KTGVLVSLSEQNLVDCSGNNGCKGGLMDLAFTYIKKNGGII JniRef90_G9F9V4 KKGKLVSLSEQNLMDCSKEYGNNGCEMDKAFQYVSDNKGII JniRef90_M0T6Q9 AKGSLIPLSEQQLLACDNDNDNGCSGGLHYHAFSYVSNGGII	UniRef90_022961	A G G N L V S L S E	Q Q L L D C	DREYG <mark>C</mark> DGG MSDAFNYVVQNRGII
JNIRE19U_545197	UniRef90_K1RPX1	KNGKLVPLSE	S QL VD C	S G S F G N E G C N M E N A F K Y V K S V G G I
JniRef90_M0T6Q9 AKGS LIPLS EQQLLA CDDNDNG CSGG HYHAFSYVS NGGI	UniRef90_S4S19/ UniRef90_G9F9V4	K K G K I V S I S E	ONI MOC	S
	UniRef90_M0T6Q9	AKGSLIPLSE	Q QIL TIA C	DDNDNGCSGGLHYHAFSYVSNGGI

QUERY	90 100 110 120 HYRNTYPYEGVQRYCRSREKGPYAAKTDGVRQVQPYNQGA
UniRef90_A7Y7Y0 UniRef90_B8LMA7 UniRef90_K3Y294 UniRef90_D0VEB8	T T E E R Y P Y K A E D D K C D D Q K R N T P V V S I D G H E D V P P N D E D A V T E D E Y P Y T A E A G E C S T T K S K S I A T I I D G F E D V P A N N E G A D T E A D Y P Y T G R D G T C N E A K K K K K V V S I S S Y S H V P A N N E K A T T E A N Y P Y Q G E Q N S C D Q S K E N S H D V S I D G Y E D V P A N D E S A
UniRef90_M0U9W7 UniRef90_W0USY1 UniRef90_I1J446	T T E A D Y P Y LA K Q T K C N V I K K G C H V V V I D G Y E D V P V N D E E A T S F D A Y P Y A F V D O T C O S K M N S P V V T V D G H O N V P I N N F N A
UniRef90_UPI00032A6241 UniRef90_O65493 UniRef90_W9RKI3	NTEASYPYKGVDGKCNIKEEAVHAATI TGYEDVPINNEKA TTESNYPYAAKDGTCDVLKKHKPAVSI DGHENVPLNNEVA HKEDDYPYLMEEGICQEQKEDVERVTI SGYEDVPENDDES TTEKNYPYQARDGTCDSSRVTNAPVVI DGYEMVPENDENA
UniRef90_B9HLD6 UniRef90_T1J339 UniRef90_B9I1N0	T S E N T Y P Y R A K E E P C D S N K M N S P V V N I D G Y E M V P E N D E N A
UniRef90_Q6F6A4 UniRef90_A9UX29 UniRef90_UPI000234F5C4	ALEASYPYTAADGT <mark>C</mark> NSKEEASRAAKI SGYEKVPANSETA
UniRef90_A0A024GJP0 UniRef90_B6TLR1 UniRef90_B4FS90	CSEEDYAYUHSQSVC RSCKPVVSVSGFEDVESNNELA AAFDAYPYRARQASC KKSPAPVVTUDGYFDVPANDFSA
UniRef90_Q40991 UniRef90_Q5K4K7 UniRef90_Q9LT77	DTEDDYPYRAVDGKCDMNRKNARVVSI DGFEDVPENDEKS SSEAEYPYAAEDSYCATEKK SHVVSI DGHEDVPANDEDS DTEKDYPYLGFNNQCDPTKKNAKVVSI DGYEDVPNNENA ETDQDYPYNANDLGLCNKNNNTRVVTI DGYEDVPRDDEKS
UniRef90_U5GKD1 UniRef90_W9QU40 UniRef90_K4BVG7	ETDQDYPYNANDLGLCNKNNNTRVVTIDGYEDVPRDDEKSTSEATYPYQGVDGTCKSKKTASLEAKITGYEDVPVNNENAAPESDYPYSGLNGQCDFSLANKKAVTIDGYEDVPAYDEKADTEKDYPFREKEGTCNKNKLQRRVVTIDGYTDIPQNDEDKDTEEDYPYKAADGRCDQTRKNAKVVTIDAYEDVPENNEAA
UniRef90_M4EXW8 UniRef90_K7UE86 UniRef90_V5K5R5	DTEADYPEILIGTDGT <mark>C</mark> DASKENNKIVIATILIDGILVIEIVIASNNETA
UniRef90_UPI0003D2975D UniRef90_UPI000234FE62 UniRef90_A0A059CCE2 UniRef90_R0H3G6	T T E A N Y P Y E G A D G V C N K K K S A V S A A K I T G Y E D V P A N N E K A T S E N S Y P Y K G I N S T C N K K K L F N Q I A K I Y R Y E D V P S N S E S A H T D D D Y P Y L M E E G Y C K E K Q P Q S K V V T I S G Y E D V P E N S E V S T T E A N Y P Y Q G I D G T C N T A K T A N Q A A S I T G Y Q D V P A N N E K A E Y Q S D Y P Y Q A V Q G Y C N H N Q N T S K K V K I D G Y E D V P A N N E N S V T E A D Y P Y T A I Q G T C D Q E K S Q N K V V T I Q G Y T K V E Q N E E S
UniRef90_M4EPC6 UniRef90_M4FAU3 UniRef90_UPI00042B8B63	VTEADYPYTALQGTCDQEKSQNKVVTI QGYTKVEQNEES DTEADYPYTATDNTCNSDKKNTVTI DGYVAVPGNDEKS TTEDNYPYOATOGACDKEKETSHVADIISDYARVPANSEE
UniRef90_T2BQ67 UniRef90_R0HB78 UniRef90_J9QJ79	DTEEDYPYKAKDGKCDQARKNAKVVTIIDGYEDVPANDEKA LTDNEYPYKAVNGVCDGRKENNKNVMLDGYENLPANDEFA DTEKSYPYEAVDGECRFKKEDVGATDTGYVEIIKAGSEVDL
UniRef90_Q84M27 UniRef90_UPI00032A9E5F UniRef90_G0YWA7	VTTEQYPYFARNGRODISKRNSPVVKIDGFENVPANDESA ASESKYPYKGADKKONIKKGAYSVAKIKGYEKVPINNEKE TTESNYPYKGEDATOKUKSTXPSAASITGYEDVPVNDENA
UniRef90_UPI0003D74C38 UniRef90_J3M392 UniRef90_L5MDA5	DTEEDYPYKALDGSCDTYRKNAKVVTIDDYEDVPLNDEKA HTEEAYPYAMEEGDCDLEKAGATAVTISGYEDVPENDDEA DSEDAYPYVGQDESCMYNPTGKAAKCRGYKEIPEGNEKAL
UniRef90_I1LR49 UniRef90_F6H4X5 UniRef90_Q7F3A8	VTEADYPYTAI QGTC QGEKSQNKVVTI QGYTKVEQNEES DTEADYPYTATDNTCNSDKKNTRVVII DGYVAVPGNDEKS TTEDNYPYGATQGACDKEKETSHVADISDYARVPANDEKA LTDNEYPYKAKDGKCDQARKNAKVVIII DGYEDVPANDEKA LTDNEYPYKAVNGVCDGRKENNKNVMIDGYEDVPANDEFA DTEKSYPYEAVDGECRFKKEDVGATDTGYVEIKAGSEVDL VTTEQYPYFARNGRCDISKRNSPVVKIDGFENVPANDESA ASESKYPYKGADKKCNIKKGAYSVAKIKGYEKVPINNEKE TTESNYPYKGEDATCKIKKSTXPSAASITGYEDVPVNDENA DTEEDYPYKAIDGSCDTYRKNAKVVVTIDDYEDVPLNDEKA DTEEDYPYKAIDGSCDTYRKNAKVVVTIDDYEDVPLNDEKA DTEEDYPYKAIDGSCDTYRKNAKVVVTIDDYEDVPLNDEKA ASESKYPYGADKKCNIKKGAYSVAKIKGYEKVPINNEKA DTEEDYPYKAIDGSCDTYRKNAKVVVTIDDYEDVPLNDEKA DTEEDYPYKAIDGSCDTYRKNAKVVVTIDDYEDVPLNDEKA DTEEDYPYKAIDGSCDTYRKNAKVVVTIDDYEDVPANNEKA DTEEDYPYANEGEGDCDLEKAGATAVTISGYEDVPANNEKA DTEEDYPYANEGEGDCDLEKAAANHVVKISGYETVPPANNEKAL TTEANYPYGGEGGICNKDKAAANHVVKISGYETVPPANNEKAL TTESAYPYRAANGTCDAVRARRAPVVIDGGNOPPANSEAA DTEKAYPYRAAANGTCDAVRARRAPVVIDGGNOPPANSEAA DTEKAYPYRAAANGTCDAVRARRAPVVIDGGNOPPANSEAA
UniRef90_A0A023EN22 UniRef90_K8FEG6 UniRef90_E1Z3J4	D S E K Q Y Q Y K A S F D D C K T R K T L L H I A S I D G F N D V P S N D E T A D T E D D Y P Y R A E D G L C Q D N R T R R H V V T I D G Y Q D V P P N D E N A
UniRef90_A0A059CCF5 UniRef90_Q2QU43 UniRef90_W9SNT1 UniRef90_UPI00042B69BA	T S E T K Y P Y
UniRef90_UPI0003AF76BE UniRef90_J3JY43 UniRef90_A9Z0S7	DTEAAYPYKAKGQQ <mark>CL</mark> YKPDGI GAK <mark>C</mark> I GYVEVEVEPSNEDAL DTEAAYPYMGEDEKFRYSAKNRGATDKGFVDI PSGDEDKL DTEFSYPYKGVEGKK <mark>C</mark> HFRRKFVGAFDYGYTDI PFGDEFA
UniRef90_UPI00042B63D4 UniRef90_UPI0002B47531 UniRef90_Q40922	DNEEDYPYLGREKICNKEKRKRRVVIII DGYAGVPANNEDL DTEEDYPYGFDSSCLQYKKNAKVVAII DSYEDVPVNNEKA DSEDDYPYKANNGSCDAYRKNAHVVIII DDYEDVPENDEKS
UniRef90_G7IM76 UniRef90_C5X5T3 UniRef90_M5XDT9	T S E T N Y P Y T RIVID G K C NIVIR K G T Y NIVIA KII IK G Y E HIVIP A N N E K A T T E E D Y P Y T G T T D A C N R A K L A H N A A S II IA G L R R IV A T R S E A S D S E F D Y P Y K G Y D A T C D T Y R K N A K V V S II D D Y F D IV P A Y D F K A
UniRef90_A0A023FLG3 UniRef90_Q5ILG5 UniRef90_K3Y8C8	DTELSYPYNGTDGTCHFKKSDVGATDTGFVDIPEGDEKLLVSEEHYPYTGTNGTCNTTKENAHVVSIDSYRNVPSNDEKSTESDYPYVGRQGQCRRDKLGHHAATIRGVWAVQRNNEAM
UniRef90_Q40993 UniRef90_A5HII3 UniRef90_UPI00045D9B77 UniRef90_Q27759	DSQLDYPYLGRQSTCNQAKKNTKVVSINGYKNVQRNSESANTEENYPYTAQEGQCDLNLQNEKYVTIDNYENVPYYNEWADSEESYPYLGMDAQDCNYKLDYSAANDTGFVDLPQQEKAL
UniRef90_UPI0002C57112 UniRef90_O18455 UniRef90_A0A058ZWJ5	DTEDSYPYEAQDGKCRFDASNVGATDTGYVDVEHGSESAL LDSEESYPYCAQDGSCKYKPEQSVANDTGFTDIHQDEESL DKETAYPYKAKTGKKCLFKRNDVGATDSGYNDIIAEGDEED
UniRef90_A2I408 UniRef90_W5BJ07 UniRef90_E5LEX0	S S E T N Y P Y V G V D S T C D V Q A S S V A E A K I S D Y R D V P P N E D D M D T E Q S Y P Y E G I D D K C R Y K P Q E S G A T D K G F V D I P Q G D E E K L T M E S S Y P Y T A A D G K C K A G S N S A A T I T G F E D V P A N N E G A D T E A S Y P Y E A T D G K C Q Y N P A N S G A T V T G Y V D V E H D S E D A L
UniRef90_B3RS81 UniRef90_R4N047 UniRef90_S8C022	DTEASYPYEGRODUCRYKKTNKGAI DTGYMDUKQYSEDDL IEKESSYPYERRGARCRFDRSLAVVQVLGYTNVPRNEASL DTEEDYSYKGRDASCSONKINKRVYTUDSYVVDUPEKNEOM
UniRef90_F2E5Q3 UniRef90_O22499 UniRef90_T1H868	D T E D S Y P Y E A V D N Q C R F K A A N V G A T D T G F T D I T S K D E S A L D T E A D Y P E T G H D G T C D I K I K N T R V V S I D S E E R V P I N Y E R A
UniRef90_A7RPY5 UniRef90_UPI00038EDEF9 UniRef90_I3K9F7	DSEASYPYEARDNTCRFKKDKVGGTDKGYVDI LEASEKDL DTEQSYPYTARDGQCHFKPGSVGATVTGYTDVQRGSEGDL LESEKSYPYEGKEGSCKYKPELAAANDTGFVDVPQREKAL DTEESYPYEAENGKCRYNPDNI GATSTGYTEVSQGDEDAL
UniRef90_UPI00026588EE UniRef90_O22961 UniRef90_K1RPX1 UniRef90_S4S197	DTEDSYPYVGTDGSCHFKNKSLGATLKGFMDVKEGDEEAL ASENDYSYQGSDGGCRSNAR PAARISGFQTVPSNNERA ESESDYPYKARQRTCAFDKTKVLATVSGCVDVESGSESSL DSEASYPYTAKDENCKYNPKNKAAEDTGFVDLPSGNEEAL
UniRef90_S4S197 UniRef90_G9F9V4 UniRef90_M0T6Q9	DTESSYPYEARDYACRFKKDKVGGTDKGYVDI PEGDEKAL TTEANYPYHPNVSTCNSTKQSDHAVSITGYGI VPTNDEKL

QUERY	130 LLYSIANQPVSVVLQAAGKDFQLYRGGIFVGPCGNKVDHA
UniRef90_A7Y7Y0 UniRef90_B8LMA7 UniRef90_K3Y294	140 150 140 150 C G N K D H A A A A N Q P S V Q A A A G S Q F Q F Y S E G V F T G K C G T E L L D H G G L Q M A V A N Q P S V A I D A A G G R A F Q F Y S E G V F T G D C G T A L L D H G G L Q M A V A K Q P V S V A I D A A G G R A F Q F Y S E G V F T G D C G T A L L D H G G L Q M A V A K Q P V S V A I D A A G G R A F Q F Y S E G V F T G D C G T D L L D H G G L Q M A V A K Q P V S V A I D A A G G R A F Q F Y S E G V F T G D C G T D L L D H G G L Q M A V A K Q P V S V A I D A A G G R A F Q F Y S E G V F T G D C G T D L L D H G G L Q K A V A N Q P V S V A I D A A G G R A F Q F Y S E G V F T G D C G T D L L D H G G L Q K A V A N Q P V S V A I D A A G G R A F Q F Y S E G V F T G D C G T D L D H G G L Q K A V A N Q P V S V A I D A A G G R D F Q F Y S E G V F T G D C G T D L D H G G L Q K A V A N Q P V S V A I D A A G G R D F Q F Y S E G V F T G D C G T D L D H G G L Q K A V A N Q P V S V A I D A A G G R D F Q F Y S E G V F T G D C G T D L D H G G L Q K A V A N Q P V S V A I D A A G G R D F Q F Y S E G G V F T G D C G T D L D H G G L Q K A V A N Q P V S V A I D A A G G R D F Q F Y S E G G V F T G D C G T D L D H G G L Q K A V A N Q P V S V A I D A A G G R D F Q F Y S S G G V F T G D C G T D L D H G G L L K A A V A N Q P V S V A I D A A G G R D F Q F Y S S G G V F T G D C G T D L D H G G L L K A A V A N Q P V S V A I D A A G G R D F Q F Y S S G G V F T G D C G T D L D H G G L L K A A V A N Q P V S V A I D A A G G R F Q F Y S S G G V F T G D C G T T N L D D H G G L L K K A V A N Q P V S V A I D A A G G R F Q F Y S S G G V F T G G R C G T T N L D D H G G L L K K A V A N Q P V S V S V A I D A A G G R F Q F Y S S G G V F T G G R C G T T N L D D H G G L L K K A V A N Q P V S V S V A I D A A G G R R A F Q F Y S S G G V F T G G R C G T T N L D D H G G L L K K A V A H Q P V S V S V A I D A A G G G R A F Q F Y S S G G V F T G G R C G T T N L D D H G G L K K A V A H Q P V S V A I D A A G G G R A F Q F Y S S G G V F T G G R C G T T S L D D H G G L K K A V A H Q P V S V A I D A A S
UniRef90_D0VEB8 UniRef90_M0U9W7 UniRef90_W0USY1 UniRef90_I1J446	L QKAVANQPVSVAI DASGNDFQFYSEGVFTTDGGTDLDHG LMKAVANQPVSVAVEASGPDFQFYSEGVFTGDCGTALDHG LMKAVANQPVSVAI EASGPDFQFYSEGVFTGDCGTALDHG
UniRef90_UPI00032A6241 UniRef90_O65493	L QK A VA N Q P V S V A I D A S G A D F Q F Y S E G V F S G F E L D H G L UK A A A N Q P I S V A I D A S G A D F Q F Y S E G V F S G H C G T E L N H G L VK A L A H Q P V S V A I E A S G R D F Q F Y K G G V F N G K C G T D L D H G L M K A V A N Q P V S V S L D A G G K D F Q F Y S E G V Y T G S C G T E L N H G L M K A V A N Q P V S V S L D A G G K D F Q F Y S E G V Y T G S C G T E L N H G L M K A V A N Q P V S V S L D A G G K D F Q F Y S E G V Y T G S C G T E L N H G L M K A V A N Q P V S V S L D A S G K D F Q F Y S E G V Y Y K P D C S S T N H G
UniRef90_W9RKI3 UniRef90_B9HLD6 UniRef90_T1J339 UniRef90_B9I1N0	L MK A V A N Q P V S V A I A MD A G G K D L Q F Y S E A I F T G D C G T E L N H G L A E A V A T V P V S V A I D A S D P D F Q H Y S R G V Y Y K P D C S S T N H G L L K A V A N Q P V S V A I D A G G S A F Q F Y S S G V F T G D C G T D L D H G
UniRef90_Q6F6A4 UniRef90_A9UX29 UniRef90_UPI000234F5C4	L L K A V A N Q P V S V A I D A G G S A F Q F Y S S G V F T G D C G T D L D H G L L K A V A N Q P V S V S I D A S G V A F Q F Y S S G V F T G E C G T D L D H G L A A A V A K G P V S V A I E A D Q S G F Q L Y K S G V F D G N C G T N L D H G L L K V A A V Q P V S V A V D A G G F L F Q L Y A G G V F S G P C T A Q I N H G
UniRef90_A0A024GJP0 UniRef90_B6TLR1 UniRef90_B4FS90	L LKVAAVQPVSVAVDAGGFLFQLYAGGVFSGPCTAQINHG LKAAVAQQPVSIAIDAGDRSFQFYKSGVYNKTCGTQLDHG LKAAVAHQPVSVAIEASGSHFQFYSEGVFSGRCGTELDHG LQKAVAHQPVSVAIEASGSHFQFYSEGVFSGSCTTNLDHG
UniRef90_Q40991 UniRef90_Q5K4K7 UniRef90_Q9LT77	LQKAVAHQPVSVAI EAGGREFQLYKSGVFSGSCTTNLDHG LLKAVANQPVSIAI EASGYDFQFYSEGVFTGRSGTELDHG LKKAVAHQPVSIAI EASGYDFQFYSEGVFNGECGLALDHG LKKAVAHQPVSIAI EASSQAFQLYKSGVMTGTCGLSLDHG
UniRef90_U5GKD1 UniRef90_W9QU40 UniRef90_K4BVG7	LKKAVAHQPVSVAI EASSQAFQLYKSGVMTGTCGISLDHG LLQAVAKQPVSVAVEGGGYDFQFYKSGVFKGDCGTYLDHA LKKAVAHQPVSVAI EAGGRALQLYESGVFTGRCGVALDHG LLKAVATQPVSVGICGSARAFQSYSKGIFTGPCPTDLDHA
UniRef90_M4EXW8 UniRef90_K7UE86 UniRef90_V5K5R5	L LK A VA T Q P V S V G I C G S A R A F Q S Y S K G I F T G P C P T D L D H A L K K A L A N Q P I S V A I E A G G R A F Q L Y S S G V F D G I C G T E L D H G L Q E A V A I Q P V S V A I D A S G R A F Q H Y S S G I F N G P C G T S L D H G L L Q A V A N Q P V S V A I D G S S F D F Q S Y S S G V F S G S C S T W L N H A
UniRef90_UPI0003D2975D UniRef90_UPI000234FE62 UniRef90_A0A059CCE2	L L Q A V A N Q P V S V A I D G S S F D F Q S Y S S G V F S G S C S T WL N H A L V K A I A N Q P I S V A I D A G G S D F Q F Y S S G V F T G H C G N E L D H G L L K A L A H Q P I S V G I A A G S K D F Q F Y K R G V F E G S C G T E L D H A L L Q A V A N Q P V S V S I E G G G Y N F Q F Y S S G V F T G S C G T D I D H A
UniRef90_R0H3G6 UniRef90_M4EPC6 UniRef90_M4FAU3	L MK A V A N Q P V S V A I D A S G N D F Q F Y S E G V F T T G D G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D H G G G T D L D D H G G D T D L D D H G G D T D L D D H G G D T D L D D H G G D T D L D D H G G D T D L D D H G G D T D L D D H G G D T D L D D H G G D T D L D D H G G D T D L D D H G G D T D L D D H G G D T D L D D H G G D T D L D D H G G D T D D D H G G D T D L D D H G G D T D D D H G G D T D D D D D H G G D T D D D D D D D D D D D D D D D D
UniRef90_UPI00042B8B63 UniRef90_T2BQ67 UniRef90_R0HB78	L Q A V A N Q P V S V A I D A G G S D F Q F Y S S G V F T G H C G N E L D H A A L V K A I A N Q P I S V A I D A G G S D F Q F Y S S G V F T G H C G N E L D H A A L V K A I A N Q P I S V A I D A G G S D F Q F Y S S G V F T G H C G N E L D H A A L V K A I A N Q P I S V A I D A G G S D F Q F Y K R G V F T G B C G T D L D H A A L Q A A A D A Q P V S V S I E G G G Y N F Q F Y S S G V F T G A C G T D L D H A A L Q A A A D A Q P V S V S I E A G G R E F Q L Y K S G V F T G A C G T D L D H A A L Q A A T A Q Q P V S V S I E A G G R E F Q L Y K S G V F T G A C G T D L D H A A L L K A A V A H Q P V S V S I E A G G R E F Q L Y K S G V F T G A C G T D L D H A L L K A A V A D Q P V S V S I E A G G R E F Q L Y K S G V F T G A C G T D L D H A L L K A A V A D Q P V S V S I E A G G R E F Q L Y S S G V F T G A C G T D L D H A L L K A A V A D Q P V S V S I E A G G R E F Q L Y S S G V F T G A C G T D L D H A C L K K A V A G Q P V S V S I D A S G S S R E F Q L Y S S G V F D G S C G T N L N H G K K A V A D Q P V S V S I D A S G G S C G T N L N H A A L A H Q P V S V S I S I D A G G G T D F Y S S G G V F D G P C G E E L D H G K K A V A N Q P V S V S I E G G G G M A F Q L Y S S G G V F D G P C G E E L D H G K K A V A N Q P V S V S I D A S L S S F Q F Y S S G G V F D G P C G T T L D H A A L M K A V A N Q P V S V S I D A S L S S F Q F Y S S G G V Y Y D E P C G G T S L D H G L L K A L A H Q P V S V S I D A S L S S F Q F Y S S G G V Y Y S D G C G T T F D H A A L L K A L A H Q P V S V S I D A S L S S F Q F Y S S G G V Y Y S D G C G T T F D H A A L L K A L A H Q P V S V S I D A S L S S F Q F Y S S G G V Y Y S P Q C D S E N V G L D H G K K A V A N Q P V S V S I D A G D Q S F Q F Y S S G G V Y Y S P Q C D S E N V G L D H G K K A A V A N Q P V S V S I A I D A S H Q S F Q F Y S S G G V Y Y S P Q C D S E N V G L D H G K K A A V A N Q P V S V S I A I D A S H Q S F Q F Y S S G G V Y Y S P Q C D S E N V G L D H G K K A A V A N Q P V S V S I A I D A S H Q S F Q F Y S S G G V Y Y S P Q C C G T T S L D H G K K A A V A N Q P V S V S I A I D A S H Q S F Q
UniRef90_J9QJ79 UniRef90_Q84M27 UniRef90_UPI00032A9E5F	KKAVATVGPI SVAI DASHSSFQLIYSEGVYDEPECSSEDLD MLRAVANQPVSI AI DAGGLNFQFYSQGVFNGACGTELNHG LLKAVANQPVVVYI EGGERAFRYYSSGI FKRKCGTDLDHA
UniRef90_G0YWA7 UniRef90_UPI0003D74C38 UniRef90_J3M392	LIMKAVAHQPVSVGI EGGGFDFQFYSSGVFIGECTTYLDHA LQKAVANQPVSVAI EGGGMAFQLYESGI FTGRCGTSLDHG LIKALAHQPVSVAI EASGRHFQFYSGGVFDGPCGEELDHG
UniRef90_L5MDA5 UniRef90_I1LR49 UniRef90_F6H4X5	LIKALAHQPVSVAI EASGRHFQFYSGGVFDGPCGEELDHG KKAVARVGPISVAI EASGRHFQFYSGGVFDGPCGEELDHG KKAVARVGPISVAI DASLSSFQFYSGGVYDCNSDNLNHA LLNAVANQPVSVLVDSSDYDFRFYSSGVLSGSCGTTFDHA LQAAVAKQPVSVAI DAGGYEFQLYSKGIFNGFCGKQLNHA LAKAVANQPVSVAI DAGDQSFQFYSDGVFAGDCGTDLDHG KKALATVGPVSIAI DASHQSFQFYSEGVYYEPQCDSENVG
UniRef90_Q7F3A8 UniRef90_A0A023ENZ2 UniRef90_K8FEG6 UniRef90_E1Z3J4	L K K A V A H Q P V S V A I E A G G R E F Q L Y K S G V F T G A C G T D L D H A L L K A V S N Q P V T I S I E A S G M D F K F Y E S G I F S G D C G T N L N H A L K K A V A A G Q P V S V A I E A G G K D F Q H Y K S G V F D G S C G T N L N H G K K A V A H Q P V T A V V D S S S R E F Q L Y S E G V Y D E P E C S S E D L D M K K A V A T V G P I S V A I D A S H S S F Q L Y S E G V Y D E P E C S S E D L D M L R A V A N Q P V S V A I D A G G L N F Q F Y S S G V F N G A C G T E L N H G L K A V A N Q P V S V G I E G G G F D F Q F Y S S G V F T G E C T T Y L D H A A L Q K A V A N Q P V S V A I E A S G R H F Q F Y S S G V F D G P C G E E L D H G L I K A L A H Q P V S V A I E A S G R H F Q F Y S S G V Y Y D C N S D N L N H A L Q K A V A N Q P V S V A I E A S G R H F Q F Y S S G V Y Y S G G T T F D H A A L Q K A V A N Q P V S V A I D A S L S S F Q F Y S S G V Y Y S G G T T F D H A A L Q K A V A N Q P V S V A I D A S L S S F Q F Y S S G V Y Y S G G T T F D H A A L Q K A V A N Q P V S V A I D A G D Q S F Q F Y S S G V Y Y Y E P Q C D S E N V G C G T D L D H G K K A V A N Q P V S V A I D A G D Q S F Q F Y S D G V Y Y E P Q C D S E N V G C C G T D L D H G C K K A L A T V G P V S V A I D A G D Q S F Q F Y S S G V Y Y E P Q C D S E N V G C C G T A L D H G L K K A V A N Q P V S V A I E A D Q L A F Q L Y G G G V Y H E D C G T A L D H G L K K A V S Q Q P V S V A I E A D Q L A F Q L Y G G G V F N G N C G T E V T H A L K A V A N Q P V S V S V A I E A D Q L A F Q L Y G G G V F N G N C G T E V T H A L L K A V A N Q P V S V S V A I E A D Q L A F Q L Y G G G V F N G N C G T E V T H A L L K A V A N Q P V S V S V A I E A D Q L A F Q L Y G G G V F N G N C G T E V T H A L L K A V A N Q P V S V S V A I E A D Q L A F Q L Y G G G V F N G N C G T E V T H A L L K A V A N Q P V S V S V A I E A D Q L A F Q L Y G G G V F N G N C G T T L D H G L M K A V A N Q P V S V S V A I E A D Q L A F Q L Y G G G V F N G N C G T T L D H G L M K A V A N Q P V S V S V A I E A D Q L A F Q L Y G G G V F N G N C G T T L D H G L M K A V A N Q P V S V S V A I E A D Q L A
UniRef90_A0A059CCF5 UniRef90_Q2QU43 UniRef90_W9SNT1	L LKAVAMQPVSVSI DGSRREFHLYSSGVFNGNCGTEVTHA LMKAVAGQPVSVAVDASKFQFY GGGVMAGECGTSLDHG LQQAVSKQPVSVAVDATNFQFY PGGVLHDNCGTELNHG LQDAVAHQPVSVAIDAGGYEFQLYSEGIFTGFCGNQLNHG
UniRef90_UPI00042B69BA UniRef90_UPI0003AF76BE UniRef90_J3JY43	LQDAVAHQPVSVAIDAGGYEFQLYSEGIFTGFCGNQLNHG KEAVATIGPISVGIDASHNSFRFYQSGVYDEPDCSKTVLN KAAVATVGPISIAIDASHESFQLYSNGVYSDPTCSSTDHG LKVAVATLPISVAIDAGHISFQNYRKGIYTENECSDLDHG
UniRef90_A9Z0S7 UniRef90_UPI00042B63D4 UniRef90_UPI0002B47531	KKALATVGPVSI AI DASHQSFQFYSEGVYYEPQCDSENVG LKKAVSQQPVSVAI EADQRSFQLYGGGVYHEDCGTQLDHG LMKAVAHQPVSVSI DGSRREFHLLYSSGVFDAECGTALDHA LMKAVAMQPVSVSI DGSRREFHLLYSSGVFNGNCGTEVTHA LMKAVAMQPVSVSVDDASKFQFY GGGVVMAGECGTEVTHA LMKAVAKQPVSVAVDATNFQFY PGGVLHDNCGTELNHG LQQAVSKQPVSVAVDATNFQFY PGGVVDTCSSTDHG KEAVATIGPISVGIDASHNSFRFYQSGVYDEPDCSKTVLN KAAVATVGPISIAI DASHESFQLYSNGVYSDPTCSSTDHG LKVAVATIPISVAI DAGHISFQNYRKGIYTENECSDLDHG LKVAVATIPISVAI DAGHISFQNYRKGIFTGRCGTDLDHG LLQAVAKQPVSVAI EGGGRSFQLYSKGIFTGRCGTDLDHG LLQKAVSKQVVSVAI EGGGGRSFQLYSKGIFTGRCGTDLDHG LKKAAANQPISVAI EASGRAFQFYSSGIFTGRCGTDLDHG LKKAAANQPISVAI EASGRAFQFYSSGILKGKCGIDLDHG
UniRef90_Q40922 UniRef90_G7IM76 UniRef90_C5X5T3	L K K A A A N Q P I S V A I E A S G R A F Q F Y E S G V F T S N C G T Q L D H G L L K A V A N Q P I A V Y I A A T K R A F Q F Y S S G I L K G K C G I D L D H T L A N A V A G Q P V A V S I E A G G D N F Q H Y K R G V Y N G P C G T S L N H G L K K A V A N Q P I A V A I E G G G R D F Q L Y N S G V F T G R C G T S L D H G
UniRef90_M5XDT9 UniRef90_A0A023FLG3 UniRef90_Q5ILG5	LKKAVANQPIAVAI EGGGRDFQLYNSGVFTGRCGTSLDHG KKAVATVGPVSVAI DASHQSFQFYSEGVYNEPECSSEDHG LQKAAANQPISVGI DASGRNFQLYHSGI FTGSCNTSLNHG
UniRef90_K3Y8C8 UniRef90_Q40993 UniRef90_A5HII3	LQKAAANQPISVGIDASGRNFQLYHSGIFTGSCNTSLNHG LERAVAGQPVAVSINAS RAFQFYKRGVFSGPCNTSLNHA LMEAVANQPVSVGIEAYGKDFQLYQSGVFTGSCGTSLDHA LQTAVAYQPVSVALESAGDAFQHYSSGIFTGPCGTATDHA MKAVALVGPISVAIDAGHESFQFYKSGIYYESSCSDLDHG
UniRef90_UPI00045D9B77 UniRef90_Q27759 UniRef90_UPI0002C57112 UniRef90_O18455	KKAVATUGPISVAIDAGRESFQFYHDGVYYEEGCSSTMVG MVAVATVGPVSAAIDASLDSFQFYHKGIYYDPNCSSEDHG LKMAVATQPVSVAIDAGHRSFQLYTNGVYFECDPENLDHG
UniRef90_A0A058ZWJ5 UniRef90_A2I408 UniRef90_W5BJ07	LK AVANQPVSVALDSSGAAFQNYAGGVFTGPCGTELNHA KLAVATVGPISVALDSSGAAFQNYAKGVYYDKGCHGVLAV LMKAVANQPVSVAVDGGDMTFQFYSGGVMTGSCGTDLDHG
UniRef90_E5LEX0 UniRef90_B3RS81 UniRef90_R4N047	QKAVATI GPI SVAI DASRSTFHFYHKGVYYDCSSTSLDHG KAAVATVGPI SVAI DASRSTFHFYHKGVYYDCSSTSLDHG KAAVATVGPI SVAI DASHKSFHMYHTGVYHEPECSQTVLD KTAVGSVGPVSVAI DASQRSFQSYRSGI YNECSSTRLDHA
UniRef90_S8C022 UniRef90_F2E5Q3 UniRef90_O22499	QQAVATVGPISVAI DAGHTSFQLYKHGVYNEPFCSQTRLD
UniRef90_T1H868 UniRef90_A7RPY5 UniRef90_UPI00038EDEF9	QSAVATVGPISVAIDASHRSFHFYSEGVYEHCSTSQLDHA QSAVATVGPISVAIDAGHSSFQLYKTGVYSEPDCSSTDHG TKAVAEIGPISVAMDAGLMSFQFYKDGIYYDPDCSDLNHG
UniRef90_I3K9F7 UniRef90_UPI00026588EE UniRef90_O22961	K E A V A T I L G P I S V G I D A S Q M S F Q F Y E S G V Y N E P D C S S L E L D R Q A V G V A G P V S V A I D A S S M L F Q F Y R G G V Y N V P W C S E L D H G L L E A V S R Q P V S V S M D A T G D G F M H Y S G G V Y D G P C G T S S N H A
UniRef90_K1RPX1 UniRef90_S4S197 UniRef90_G9F9V4	KEAVATIGPISVGIDASGMSFQFYESGVYNEPDCSSLELDHGRQAVGVAGPVSVAIDASSMLFQFYRGGVYNVPWCSELDHGLLEAVSRQPVSVSMDATGDGFMHYSGGVYDGPCGTSSNHAKEVVSEVGPVSVAIDAGHSSFQLYAGGVYDEPLCSTSNHGKNAVASVGPVSIGIDASLESFQLYSSGIYSDSDCSNNLDHQNALATVGPISVAIDASHESFHFYSEGVYNEPYCSSYDLD
UniRef90_M0T6Q9	LMNAVANQPVSVSI DASELQFY AGGI FDGPCDTYLNHE

QUERY	170 180 190 200 VA AVG Y G P N Y L L I K N S WG T G WG E N G Y I R K R G T G N S Y G V C
UniRef90_A7Y7Y0	VATVGVGTKVWIVKNSWGAGWGEKGVIRMORKVDAFEGI <mark>C</mark>
UniRef90_B8LMA7 UniRef90_K3Y294	V V V G Y G N Y WI V R N S W G P E W G E Q G Y I R M Q R G I E A T E G K C V T A V G Y G K D F W I V K N S W G P K W G E A G Y I R M R R N V A A P T G K C
UniRef90 D0VEB8	IVIA AIVIGYGTKYWIL VIKNSWGEDWGEKGYILIRMORGIVIKOA EGILI <mark>C</mark>
UniRef90_M0U9W7	VAVVGYGTTYWLVKNSWGPEWGERGYIRMERGVSÄPEGLC
UniRef90_W0USY1 UniRef90 I1J446	VAVVGYGTTYWIVKNSWGPEWGERGYIRMERGVSAPEGLCVALVGYGTQYWTVRNSWGPEWGESGYIRMKRGIKDKRGLCVTAVGYGENYWLVKNSWGTEWGEEGYIMMQRGVKAVEGIC
UniRef90_113440 UniRef90_UPI00032A6241	VALVGYGTKYWI VKNSWGNEWGEEGYI RMQRNI I HKEGL <mark>C</mark>
UniRef90_065493	V A V G Y G S D Y V V K N S W G P R W G E K G F I R M K R N T G K P E G L <mark>C</mark>
UniRef90_W9RKI3 UniRef90_B9HLD6	VAI VGYGTKYWL VKNSWGTEWGERGYLRIQRGVEAEEGLC VALVGYGTKYWI VKNSWGTDWGEKGYIRMQRGIDAEEGLC
UniRef90_T1J339	V L V V G F G N D F W L V K N S W G A S W G D E G Y I K M A R N R E N N C
UniRef90_B9I1N0 UniRef90_Q6F6A4	V T A V G Y G M K Y W L V K N S W G T S W G E N G Y
UniRef90_A9UX29	V V V G Y T D D Y W V K N S W G T T W G V E G Y I N M K R G V S A S G I C
UniRef90_UPI000234F5C4	IVITIV VIG Y G F K Y WIL VIK N S W G P F W G F A G Y MIL IM O R D A GIVIP T GIL IC
UniRef90_A0A024GJP0 UniRef90_B6TLR1	V LAV G Y G Q K F WKV K N S WG T T WG E E G Y I R L S R D Q N G P T G Q C V A A V G Y G T K Y WL V K N S WG P E WG E K G Y I R M A R D V A A K E G H C
UniRef90_B4FS90	IV VIAIVIG Y G K D Y WIL VIR N S W G P K W G F A G Y II IR M F R NIVIN A S T G K C
UniRef90_Q40991	VAI V G Y G K K Y WI V R N S W G A E W G E K G Y I R I S A A S D S K R L C V V A V G Y G Q D Y WI V R N S W G G N W G E N G Y I R M E R N I N A N T G K C
UniRef90_Q5K4K7 UniRef90_Q9LT77	IV V V VIG Y G F D Y WILLIR N S W GILIN W G D S G Y IV IK ILIO R N ILID D P F G K <mark>C</mark>
UniRef90_U5GKD1	V T AI
UniRef90_W9QU40 UniRef90 K4BVG7	IVII VIGYGEDYWII IKNSWGTSWGII INGYII IHMORNSGNOEGII <mark>C</mark>
UniRef90_M4EXW8	
UniRef90_K7UE86 UniRef90_V5K5R5	V
UniRef90_UPI0003D2975D	VIT A VIG Y G T K Y <u>W</u> L <u>V</u> IK N S W G T S W G E N G Y L IK <u>M</u> L R D <u>V</u> N <u>V</u> IK G G L <mark>C</mark>
UniRef90_UPI000234FE62	LTAVGYGQDY[IMKNSWGKSWGEQGYFRIKRGTGKPEGVC
UniRef90_A0A059CCE2 UniRef90_R0H3G6	
UniRef90_M4EPC6	V V I V G Y G Q D Y WI V R N S WG T V WG E A G Y A K I A R N F E N P T G V C V T V V G Y G Q K Y WI V K N S WG T G WG E Q G Y V R M E R G Y S E E T G K C
UniRef90_M4FAU3 UniRef90 UPI00042B8B63	ALAVGYGQDYWI IRDSLGSNWGESGYIRLQRNVNDSAGKCVTVVGFGIDYWLVKNSWNGSWGENGYIKMQRNVDASEGLC
UniRef90_T2BQ67	VTVVGFGIDYWLVKNSWNQSWGENGYIKMQRNVDASEGLC VVAVGYGMDYWIVRNSWGASWGENGYLRMQRNIGNPKGLC
UniRef90_R0HB78 UniRef90_J9QJ79	IV V V VIG Y G R F Y WIL VIK N S R G N T W G F A G Y IL IK M A R N IL IA N P R G IL I <mark>C</mark>
UniRef90_084M27	HYGVKGGKKYWLVKNSWAESWGDQGYILMSRDNNNQ VALVGYGTNYWLVRNSWGTGWGEQGYVRMQRGVNVPEGLC
UniRef90_UPI00032A9E5F	IVITIL VIGYGILIKYWILLIKNSWGILIKWGEKGYARMERDILIHSKOGILI <mark>C</mark>
UniRef90_G0YWA7 UniRef90_UPI0003D74C38	VTAVGYGSKYWI I KNSWGTKWGEGGYMRTKKDI KDKEGLC VTAVGYGTDY <u>W</u> I VKNSWGSSWGEAGYTRMERNVGTLTG <u>K</u> C
UniRef90_J3M392	IV T A V G Y G Q N Y I
UniRef90_L5MDA5 UniRef90_I1LR49	V TAV G Y G T Q H WI I K N S W G E N W G N K G Y I T M A R N K N N A C V T V V G Y G T K Y W L I K N S W G V Y W G E Q G Y L R L K R D V A A K E G M C
UniRef90_F6H4X5	IVITIVI IGYGKKYWI VIKNSWGTGWGFAGYARMI IRDSRDDFGI <mark>C</mark>
UniRef90_Q7F3A8 UniRef90_A0A023ENZ2	VAVVGYGTEYWI VKNSWGTAWGEGGYIRMQRDSGYDGGLC YGTTEDGEDYWLVKNSWGTTWGDQGYVKMARNRDNH
UniRef90_K8FEG6	IV L V VIG Y GII ID Y WKII IK N S WS E Q WG E G G Y II IRII IA R DIVIE S P S G M C
UniRef90_E1Z3J4	
UniRef90_A0A059CCF5 UniRef90_Q2QU43	VAI VGYGTNYWKI RNSWGETWGEAGYMRIQRDYAQPEGLC VTVIGYGTKYWLVKNSWGTTWGEAGYLRMEKDDDDKRGMC
UniRef90_W9SNT1	V L A V G Y G T D Y WL V K N S W G E D W G E K G Y L R T L R G S G T K G G L C
UniRef90_UPI00042B69BA UniRef90_UPI0003AF76BE	VTVVGYGRKYWLVKNSWGTSWGESGYIRMQRDFTDKRGLC HYGTEDGHDYWLIKNSWGLRWGDKGYIKMSRNKSNQ
UniRef90_J3JY43	V L V V IG Y G M D Y WIL V IK N S W G D T W G IL ID G Y II IK M A R N Q D N Q C
UniRef90_A9Z0S7 UniRef90_UPI00042B63D4	V L V V G Y G T D Y W V K N S W G T R W G E H G Y R M A R N K R N Q C V L V G Y G V D Y W V K N S W G T R W G M N G Y H M L R N S G D S K G L C
UniRef90_UPI0002B47531	V N V V G Y G V D Y W V R N S WG G S WG E S G Y V K M Q R N A S P T G L <mark>C</mark>
UniRef90_Q40922 UniRef90_G7IM76	VTL VĞYĞLDYWL VKN S WĞN S WĞE KĞF I K LQRN E G Å S T ĞMC VTI VGYGT KYWL VKN S WGT K WGE K GYI KLKRDVH A K E G S C
UniRef90_C5X5T3	V T V V G Y G Q K Y W K N S WG A S WG D G G Y K M R K D V G K P E G L <mark>C</mark>
UniRef90_M5XDT9 UniRef90_A0A023FLG3	VTVVGYGTDYWI VRNSWGGSWGEEGYI RMERNLGNAHGI C VLVVGYGQDYWL VKNSWGTTWGDEGYI YMTR NKENQC
UniRef90_Q5ILG5	VTVVGYGNDYWLVKNSWGTTWGDEGTTYMTK NKENQC VTVVGYGNDYWLVKNSWGENWGNSGYLLMERNTAESSGKC VTVVGYGRKYWLVKNSWGQTWGENGYVRLERRVSSREGMC
UniRef90_K3Y8C8	V T V V G Y G R K Y W
UniRef90_Q40993 UniRef90_A5HII3	VTI VGYGIDYWI VKNSWGINWGERGYLKI ERNKNINIGKC
UniRef90_UPI00045D9B77	V L V V G Y G I K Y W L V K N S W G T S W G I D G Y I K M A K D R N N H C
UniRef90_Q27759 UniRef90_UPI0002C57112	VGETEKGEAYWL VKNSWNTSWGNKGYI QMSRDKKNN CILVVGYGSQYWI VKNSWGTDWGTQGYI LMAKDRDNH
UniRef90_O18455	V L V V G Y G T D Y W I V K N S W G T R W G E Q G Y I R M A R N R N N N C
UniRef90_A0A058ZWJ5 UniRef90 A2I408	VTV VG Y G M K Y WL MR N S WDVS WG E S G Y MR TQ R D S GVE G G L C G Y G T E N G K D Y WL VK N S WG K R WG L D G Y L K M A R N K H N H
UniRef90_W5BJ07	GYGTENGKDYWL VKNSWGKRWGLDGYIKMARNKHNH C LAALGYGKTYWLMKNSWGTTWGEDGYLRMEKDLADKKGM <mark>C</mark>
UniRef90_E5LEX0 UniRef90_B3RS81	IVIIAIVIGYGTQYWII VIKNSWNII ITWGNHGFII IFMSRNRNNN C
UniRef90_R4N047	HYGTENGEDYWL VKNSWGTDWGMNGYI KMSRNRSNN CVLAVGYGTDYWL VKNSWGTRWGLQGYLKMSR NKRNQC
UniRef90_S8C022	IVII VIGYGKDYWI VIKNSWGKSWGMDGYMYIVIQRNTGNQNGII I <mark>C</mark>
UniRef90_F2E5Q3 UniRef90_O22499	HYGTDSGKDYWLVKNSWGEGWGDKGYIKMTR NKRNQC VTVVGYGKDYWIVKNSWGTQWGEAGYVRMARNVRVRPPSA
UniRef90_T1H868	IVI IAIVIGY GODY WII VIKNS WGPS WGNNGYII IKMARNNNS C
UniRef90_A7RPY5 UniRef90_UPI00038EDEF9	V L AV G Y G K D Y WL V K N S W G E G W G M N G Y I K M S R N K D N Q V L L V G Y G S D Y WL I K N S W G T E W G A E G Y V K A R N R N N H H Y G T E D G N D Y WL V K N S W G L E W G D K G Y I K M S R N K S N Q C
UniRef90_I3K9F7	HYGTEDGNDYWLVKNSWGLEWGDKGYIKMSRNKSNQ
UniRef90_UPI00026588EE	VLVVGYGKQFWMVKNSWGVGWGLYGYI EMSRNKGNQ VTEVGYGTKYWIAKNSWGETWGEKGYI BURRRDWAWROGMC
UniRef90_O22961 UniRef90_K1RPX1	V L V V G Y G K Q F W M V K N S W G V G W G L Y G Y I E M S R N K G N Q C V T F V G Y G T K Y W L A K N S W G E T W G E K G Y I R L R R D V A W P Q G M C V L C V G Y G K D Y W I V K N S W G V R W G V E G Y I K M S R N K N N Q C
UniRef90_S4S197	GVLVDDERKFWIVKNSWGTKWGDHGYILMARDKDN LCHYGTENGQDYWLVKNSWGTKWGDHGYIKIARNHSNH CAALVGYGTDYWIAKNSWGTSWGDHGYILLKKDVAQKEGLC
UniRef90_G9F9V4 UniRef90_M0T6Q9	HYGIENGQDYWLVKNSWGPSWGESGYIKIARNHSNH AAIVGYGTDYWIAKNSWGTSWGDHGYILIKKDWAOKEGI
CTITICOUS_INICTORS	A ALE VIET OF BY MICHARD WOLLOWODINOTH FERRIDINA WILDER

OHEDY	_	210
QUERY UniRef90_A7Y7Y0	G	L Y T S S F Y P V K N I A M Q P S Y P I K T
UniRef90_B8LMA7		I S M Q A S Y P T K K
UniRef90_K3Y294 UniRef90 D0VEB8	G G G	I A M D A Y Y P V K N I A M E A S Y P T K S
UniRef90_M0U9W7	Ğ	IAMEASYPVK
UniRef90_W0USY1 UniRef90_I1J446		I A M E A S Y P L K T I A M M A S Y P T
UniRef90_UPI00032A6241		II IA M E A S Y P II IK K
UniRef90_065493	G	INKMASYPTKT
UniRef90_W9RKI3 UniRef90_B9HLD6	G	I A MEASYPVKS I T MEASYPVK
UniRef90_T1J339	Ğ	I A T L A S Y P L V
UniRef90_B9I1N0 UniRef90_Q6F6A4	Ğ	I A M E A S Y P T I A M D A S Y P T
UniRef90_A9UX29	Ğ	IAMQPSYPIV
UniRef90_UPI000234F5C4 UniRef90_A0A024GJP0	G	I A ML A S Y P V M I A M V P S F P T
UniRef90_B6TLR1	Ğ	IAMEASYPVKT
UniRef90_B4FS90	G	I A ME A S Y P V K T I A M M A S Y P T K K L A M E A S Y P I K T
UniRef90_Q40991 UniRef90_Q5K4K7	999999	L A M E A S Y P I K T I A M E A S Y P V K N
UniRef90_Q9LT77	G	IAMMPSYPTKS
UniRef90_U5GKD1 UniRef90 W9QU40	G	V A M D A S Y P T I A M E A S Y P V K N
UniRef90_K4BVG7	Ğ	VNKLASYPTKT
UniRef90_M4EXW8 UniRef90 K7UE86	G G	I A ME A S Y P I K K I A M D A S Y P V K D
UniRef90_V5K5R5	Ğ	LAMEASYPT
UniRef90_UPI0003D2975D UniRef90_UPI000234FE62		I A M Q A S Y P I I Y S M A S Y P T K T
UniRef90_A0A059CCE2	Ğ	LATEASYPT
UniRef90_R0H3G6	Ğ	I A MV A S Y P I K N I A ML A S Y P T K
UniRef90_M4EPC6 UniRef90_M4FAU3	G	I A M L A S Y P T K V A M L A S Y P T Q S
UniRef90_UPI00042B8B63	G	LAIRPAYPI
UniRef90_T2BQ67 UniRef90_R0HB78	G G	I A TI A S Y P V K T I A M R A S Y P F K N
UniRef90_J9QJ79	Ğ	I A S Q A S Y P L V
UniRef90_Q84M27 UniRef90_UPI00032A9E5F	G	L A M D A S Y P I K L A M N P T Y P I
UniRef90_G0YWA7	Ğ	LAMKASYP
UniRef90_UPI0003D74C38 UniRef90_J3M392	G G	I A M E A S Y P I K K I N K M A S Y P T K D
UniRef90_J3M392 UniRef90_L5MDA5	G	I A N L A S F P K M
UniRef90_I1LR49	999999	I N K M A S Y P T K D I A N L A S F P K M I A M Q A S Y P I I A M E A S Y P I K I A M E A S Y P L V V A T C A S Y P L V V A E M A S Y P E K T L A M Y A S F P I K K
UniRef90_F6H4X5 UniRef90_Q7F3A8	G	I A M E A S Y P I K I A M E A S Y P V K
UniRef90_A0A023ENZ2	G	V A T C A S Y P L V V A E M A S Y P E K T
UniRef90_K8FEG6 UniRef90_E1Z3J4	G	V A E M A S Y P E K T L A M Y A S F P I K K
UniRef90_A0A059CCF5	Ğ	I A M H A S Y P V V
UniRef90_Q2QU43 UniRef90_W9SNT1		L A M Q P S Y P T I D
UniRef90_UPI00042B69BA		I A MEASYPVKS
UniRef90_UPI0003AF76BE UniRef90_J3JY43	G	I A S D A T Y P L M K V A T Q A S Y P L V
UniRef90_A9Z0S7	G	I A S K A S Y P I V
UniRef90_UPI00042B63D4 UniRef90_UPI0002B47531		I NMLASYPTKT
UniRef90_Q40922	G	I A M E P S Y P T K I A M E A S Y P V K K I A M V P T Y P I V
UniRef90_G7IM76	G	IAMVPTYPIV
UniRef90_C5X5T3 UniRef90_M5XDT9	G	I A I R P S F P L M I A M E A S Y P V K S
UniRef90_A0A023FLG3	G	I A S S A S Y P L V
UniRef90_Q5ILG5 UniRef90_K3Y8C8	G	I A I S P S Y P I K I A M E P Y Y P V M
UniRef90_Q40993	G	I A M D A T Y P T K
UniRef90_A5HII3 UniRef90_UPI00045D9B77	G	I A T M P S Y P V K I A T A A S Y P T V
UniRef90_Q27759	Ğ	A S Q A S Y P L V
UniRef90_UPI0002C57112 UniRef90_O18455	G	I ATSASFPTV I ASHASFPLV
UniRef90_A0A058ZWJ5	G	I A S K V S Y P V
UniRef90_A2I408	G G	I A T S A S Y P L V
UniRef90_W5BJ07 UniRef90_E5LEX0	G	I ATQASYP LV
UniRef90_B3RS81	G	IATNASYPLI
UniRef90_R4N047 UniRef90_S8C022	G G E	I A S D A S Y P V K T
UniRef90_F2E5Q3	Ğ	I ATAASYPLV
UniRef90_O22499 UniRef90_T1H868	G G G	I A M E P L Y P V K E I A S A A S Y P I V
UniRef90_A7RPY5	Ğ	I ATQASYPLV
UniRef90_UPI00038EDEF9 UniRef90_I3K9F7	G G G	I ATAASYPTV I ATAASYPL V
UniRef90_UPI00026588EE	G	I A S K A S I P T V
UniRef90_O22961	G G	IVIA Q Y A F Y PIVI
UniRef90_K1RPX1 UniRef90_S4S197	GG	I A S E A S Y P L V
UniRef90_G9F9V4	Ğ	I A S M A S Y P I V
UniRef90_M0T6Q9	G	VALRASYPII

	1 10 20 30 40
UniRef90_W5LHN3 UniRef90_I1GSS7	VPDSVDWREKGYVTNVKQQGACGGCWAFSAAGALEGQLMR PTSVDWRSKGAVTPVKDQGGCGWAFATVATIEGLHKI
UniRef90_M4DG64 UniRef90_G5A647	PTSVDWRSKGAVTPVKDQGGCGCCWAFATVATIEGLHKI VPDAVDWRKEGAVTPIRDQGRCGGCWAFATVAAIEGITKI LPDSWDWRQHGAVTPVKNQGQCGSCWAFSAVAAMESAYQL
UniRef90_F0ZT73 UniRef90_L8H3R5	I P E S G D WR Q K G V V S R V K D Q G Q C G S C WS F S T T G S V E G A H Q II
UniRef90_Q8WQZ8 UniRef90_G1T0K7	P S E F D WR Q K G A V T H V K N Q G Q C G S C WS F S T T G S T E G A N F L L P D S V D WR E R G C V T E V K Y Q G S C G A C WA F S A V G A L E A Q L K L L P K S V D WR E K G C V T S V K Y Q G S C G A C WA F N S V G A L E G Q L K L
UniRef90_H2ZRS7 UniRef90_UPI0002657694	II IS E AIL ID WR O O G YIVIT PIVIK N O G N C G S C WA E S A T G AIVIE G O H E K
UniRef90_R4WQK9 UniRef90_Q70P88	L P A S V D W R P K G A V T P I K N Q G Q C G S C W A F S A T G S L E G Q T F L I P E S V D W R D K G L V T S V K N Q G M C G S C W A F S A T G A L E G Q H S R L P K S V D W R E K G Y V T P V K N Q G Q C G S C W A F S A T G S L E G Q W F H
UniRef90_UPI00020F7082 UniRef90_D1G103	L P K S V D W R E K G Y V T P V K N Q G Q C G S C W A F S A T G S L E G Q W F H L D D K V D W R D K G Y V T P V K N Q G Q C G S C W S F S T T G S L E G Q H F R
UniRef90_Q2V9X2 UniRef90_U3IYU5	LDDKVDWRDKGYVTPVKNQGQCGSCWSFSTTGSLEGQHFR PTVDWRTKGAVTGVKNQGQCGSCWAFSTTGSLEGQHFL PDTMDWREKGCVTEVKNQGACGSCWAFSAVGALEAQVKL
UniRef90_UPI0000F615D5 UniRef90_W1Q0E9	II IP S H F D W R K K G Y IV IT PIV IK N Q G A C G S C W A F S A T G A IL IE G Q M F R
UniRef90_R0GQ16 UniRef90_X5F5M1	S S L D W R K K G A V T G V K D Q G N C G S C W A F S V T G A I E S I N E I T S K D W R A E G A V T P V K S Q G S C W A F S A V A A V E G L T K I V P A S V D W R P K G Y V T P V K N Q G Q C G S C W A F S A T G S I F G Q H F K
UniRef90_UPI00035A2B52 UniRef90_Q1MTY5	VPASVDWRPKGYVTPVKNQGQCGSCWAFSATGSLEGQHFKLPDSVDWRRKGFVTPIKDQGQCGSCWAFSALGSLEGQHFNLPASVDWSKKGWVTPVKNQGQCGSCWSFSATGSMEGQHFN
UniRef90_G1QA95 UniRef90_R7V6C8	
UniRef90_UPI00042AE35D UniRef90_C5IIM1	V P K T V D WR E K G Y V T P V K N Q G Q C G S C WA F S S T G S L E G Q V F R V P K S V D WR E K G C V T P I K N Q G Q C G S C WA F S A T G A L E A Q M Y L P D E V D WR K K G Y V T A V K N Q G Q C G S C WS F S T T G S L E G Q H F H
UniRef90_T2MH98 UniRef90_Q7YT28	PDAVDWRSEGYVTPVKNQGQ <mark>C</mark> GS <mark>C</mark> WAFSSTGALEGQHFK
UniRef90_Q58HF5 UniRef90_V9KRZ0	VPVSVDWRLQGCVTSVKMQGSCGSCWAFSAAGALEGQLAKLPGSVDWRDKGYVTPVKNQGACGSCWAFSSTGALEGQTFKLPDSFDWREKGGVTPVKFQGDCGSCWSFAATGAIEGHVFR
UniRef90_B4KQX9 UniRef90_C4B4C8	LPDSFDWREKGGVTPVKFQGDCGSCWSFAATGAI EGHVFR PDSFDWRDHGAVTGVKDQGSCGSCWAFSVTGNI EGQWKM
UniRef90_G3PJI1 UniRef90_F4W7F2	L P K S I D Y R K K G M V T P V K N Q G S C G S C W A F S S A G A L E G Q L A K I P K E V D W R K H G A V T E V K D Q G H C G S C W A F S T T G S L E G Q H F R
UniRef90_S4RF02 UniRef90_J3N062	PESVDWRKQGYVTDVKNQGDCGSCWSFSTTGSLEGQHKR VPASWDWRQHGAVTAVRNQRPCGCCWAFTTVGAVEGAHAI EAVDWREKGAVTPVKNQASCGSCWAFSATGAMEGRNFV
UniRef90_D8LWW8 UniRef90_W9SBQ0	
UniRef90_UPI0002C37664 UniRef90_D8RKF7	PLSLDWRTKGVVTGVKDQGNCGSCWSFSATGAMEGINAI PASIDWREHGAVTPIKDQGKCGACWAFTVVAAVEGITKI SVDWRKKGGVTEIKDQGDCGNCWAFSALAAVEGLTFL
UniRef90_G3PNR6 UniRef90_Q26425	PRSVDWRKKGYVTPVKDQGECGSCWAFSATGALEGQ <u>I</u> FR LPEQ <u>V</u> DWRKHG <u>A</u> V TD KDQGK <mark>C</mark> GSCWSFSTTGALEGQ <u>H</u> FR
UniRef90_E5FNC3 UniRef90_X1Y3F6	V
UniRef90_W4YIR4 UniRef90_UPI00005EC1C0	L P T S F D W R D H G A V T G V K N Q G N C G S C W A F S A I G N I E G H Q I L P D S V D W R T E G Y V T P V K D Q G Q C G S C W A F S T V G A L E G Q H F V L P E S V D W R E K G Y V T P V K E Q R G C Y S C W A F S A A G A I E G Q W F R
UniRef90_H3EIY0 UniRef90_Q6NV96	PESKDWRDEGVVSPVKDQKG <mark>C</mark> GSCWAFSAVGALEGQHAL LPKFVDWRKRG <mark>C</mark> VTPVKNQGT <mark>CNSC</mark> WAFSA <u>A</u> GAIEG <u>QM</u> FR
UniRef90_G7ILI4 UniRef90_R4WI47	VPTNFDWREKGVVTDVKNQRQCGCCWAFTAVAAVEGLVKI LPDLVDWRAEGAVTPVKNQGQCGSCWAFSAVGALEGQHFR
UniRef90_UPI0003299CB5 UniRef90_A0A059CLZ8	L P D
UniRef90_T1J5Y0 UniRef90_H9H3N4 UniRef90_W5K309	P D A V D WR N S S V V T P V K D Q Q Q C G S C WA F S V T G N E G Q W A L P T S V D WR E K G Y M T P V K N Q G M C G S C WA F S A T G A L E G M F W L P Q R V D WR A K G Y V T F V K D Q G L C G S C WA F S A T G A L E G Q M F R
UniRef90_W3K309 UniRef90_P84347 UniRef90_Q6XRF7	PESI DWRDKGAVTPVKNQNPCGSCWAFSTVATVEGINKI PRSVDWREKGYVTPVKNQNPCGSCWAFSTTGALEGQEFT PPAWDWREHGAVTRVKDQGPCGSCWAFSVVEAVEGINAI
UniRef90_Q650W9 UniRef90_M8C6Q4	P P A D WREHGAVIT RVK D Q G P C G C WAFS VE SI N KI
UniRef90_M6TLP6 UniRef90_C7SFR5	PRQFDWRKHGVVTPAKQQGACGCCWAFAAAATVESLNKI LPTDFDWRTKGAVTEVKNQGLCGSCWAFSVTGNIEGQYAL LPQTIDWRQWGFVTPVKNQGSCGSCWSFSSTGALEGQNFR
UniRef90_G3IEW0 UniRef90_D7LSH3	VPKSVDWRNLSYVTPVKDQGQCSSCWAFSAVGSLEGQTFR ESMDWRLEGAVTPVKDQGQCGCCWAFAAVAAVEGVTKI PSSIDWRDKGVVSEVKNQGSCGGCWAFSATGAMESAYAL
UniRef90_V5I884 UniRef90_UPI00042AE78E	PSSIDWRDKGVVSEVKNQGSCGGCWAFSATGAMESAYAI VPKYVDWREQGYVTPVKNQGHCASSWAFSATGALEGQMFR
UniRef90_UPI0002C2E1CA UniRef90_F0WFR5	VPFSWDWRTHDAVTPVKNOGO <mark>C</mark> GS <mark>C</mark> WAFSAVAAIIFSAYAII
UniRef90_C5LKN8 UniRef90_J3N066	LPTSVDWRNKSVLSPVKDQGSCGSCWAFSAAGALEAQYAI TAWDWRQRGAVTPVKDQGSCGSCWAFSSVGAVESTYAI MPSNLDWRESGAVTQVKHQGRCGCCWAFSAVGSLEGAYKI
UniRef90_Q8S333 UniRef90_I1GN79	MPSNLDWRESGAVTQVKHQGRCGCCWAFSAVGSLEGAYKI SMDWRAMGAVTGVKDQGSCGCCWAF <u>S</u> AVAA <u>M</u> EGLTKI
UniRef90_W4ZTF7 UniRef90_E1A0V0	S MD WR A M G A V T G V K D Q G S C G C C WA F S A V A A M E G L T K I P P S WD WR S K G A V T P V K S Q G A G C S C WA F V T V A T I E T L N WI VP S Y V N W T K N G A V T A V K D Q K D C G S C WA F S T T G S V E G Q Y F I
UniRef90_B4J6B6 UniRef90_M1AN79	I PKSIDWRDKGAVTGVKDQLKCASCWAFSAVGALEGQQFL VPYSMDWRNSGSVTEIKDQGVCSCCWAFSAVAAIEGAYQI PKALDWRSKGAVTPVKNQGQCGSCWTFSTTGCLESHHFL
UniRef90_Q6A1I1 UniRef90_UPI00038BDA82	VPKFVDWRRRGYVTPVKNQGQCGSCWTFSTTGCLESHHFL VPKFVDWRRRGYVTPVKTQGRCNSCWAFSVAGALEGQMFR
UniRef90_J3N070 UniRef90_UPI00046BEF95	VPKFVDWRRRGYVTPVKTQGRCNSCWAFSVAGAIEGQMFRLPAAYDWRDYGAVAAIKDQGQCGSCWDFAGTAAVESINAILPKEFDWRKKNVVTEVKNQEQCGSCWAFSVTGNVEGQYAL
UniRef90_I3J3N4 UniRef90_M0RDV7	L P V N V D W R K E G L V G P V R N Q G L C G S C W A F S S L G A L E G Q L K K I P K T L D W R K D G Y V T P V R R Q G A C W G F A V A G S I E G Q L F K V P E A L D W R Q K G C V T S V K M Q G P C G S C W A F S A V G A L E G Q L A K
UniRef90_G3PJR4 UniRef90_W5ANZ6	PPSVDWRAKGAVTPVKNQGSQCSCWAFSAVGALLEGQLAK
UniRef90_Q6T857 UniRef90_UPI00046D9FAA	PPSVDWRAKGAVTPVKNQGSQCSCWAFSAVAMMESLYFI VPESIDWREFGYVTEVKDQGDCGSCWAFSATGAMEGQYMK VPLSWDWTT SAVTPVKDQGDCGSCWAFATVAVVEGFNSI
UniRef90_J9JCA5 UniRef90_Q80UB0	PASIDWREKGAVTPVKDQGQCGSCWAFSATGALEGHYQIVPKYVDWRMLGYVTPVKNQGYCASSWAFSATGSLEGQMFKPYSLDWRKKGVVTAVKDQGYCGCCWAFSSTGAIEGINAI
UniRef90_K7M1C1 UniRef90_UPI0003333AAC	VPKFLDWSTKGYVNPVRDQGYCGCCWAFSSIGAILEGILFR
UniRef90_M8A6A1 UniRef90_UPI00038C05C0	VPKFLDWSTKGYVNPVRDQGPCGSCWAFSASGALEGQLFRVDWRSHGAVTGVKFQGTCLSCWAFAAVAAIEGMNKILPKFVDWRKEGYVTPVRQQGHCGSCWAVAAAGAIEGQMYK
JniRef90_A4KBK6	PSELD WVRKGHVTAVKNQAQ <mark>C</mark> GS <mark>C</mark> WAFSSTGSIEGAVKR

UniRef90_W5LHN3	T T G Q L V S L S P Q N L V D	60 70 80 CSSKYGNKG <mark>C</mark> H <u>M</u> SR <u>A</u> FQY <u>V</u> I DNGG L
UniRef90_I1GSS7 UniRef90_M4DG64 UniRef90_G5A647	K T G Q L V S L S E Q E L V D G K T G N L I P L S E Q Q L I D G S T G K L E S F S E Q E L V D G	C D D A D D G
UniRef90_F0ZT73 UniRef90_L8H3R5	K S G N M V S L S E Q N L V D (T T S R L V P L S E Q N L V D (C
UniRef90_Q8WQZ8 UniRef90_G1T0K7 UniRef90_H2ZRS7	KTGNLVSLSAQNLVD(C S T N K G C N G G F M T F A F O Y I I D N N G I
UniRef90_UPI0002657694 UniRef90_R4WQK9	ATGRILESI SEQNIL VD KKGKI VSI SEQNI MD	CVKESKG <mark>C</mark> DGGFFEQAFQ <u>YI</u> KDNG <u>G</u> CSEDYGNEGCDMDQAFDYIKDNKGI
UniRef90_Q70P88 UniRef90_UPl00020F7082 UniRef90_D1G103	K T K K L V S L S E Q N L V D C Q T G K L I S L S E Q Q L V D C	C
UniRef90_Q2V9X2 UniRef90_U3IYU5	K T G K L V S L S E Q N L V D G K T G K L V S L S A Q N L V D G	C
UniRef90_UPI0000F615D5 UniRef90_W1Q0E9 UniRef90_R0GQ16	V T S E L I S L S E Q E L V D (I G K N L I S L S E Q Q L I D (C
UniRef90_X5F5M1 UniRef90_UPl00035A2B52 UniRef90_Q1MTY5	TTGK LV S L SESN LV D(C S K S Y G N M G C E M D S A F K Y K A N H G C S Q K W G N Q G C N M D Q A F Q Y V D N K G C S G N H G C N G G L M D D A F E Y V K N N G L
UniRef90_G1QA95 UniRef90_R7V6C8	KTGKILI SILISEQNILVID KTGRILIPSI ISEQNILVID	C
UniRef90_UPI00042AE35D UniRef90_C5IIM1 UniRef90_T2MH98	K	C S G N Q G C N G G L M D Y A F Q Y V F N N K G L C S G K F G N E G C N M D Q A F E Y I I T N G G I C S T D Y G N N G C N M D N A F S Y I K A N G G I
UniRef90_Q7YT28 UniRef90_Q58HF5	T T G K I V IDII IS P Q N I V IDI	C
UniRef90_V9KRZ0 UniRef90_B4KQX9 UniRef90_C4B4C8	KTGKLVSLSEQNLVDG KTGKLPNLSEQNLVDG KTGDLVSLSEQELVDG ATGKLVDLSPQNLVDG	C S K A E G N S G C G M E N A F K Y V S D N N G I C G G L D G C D G G Y Q E Y A F N F V K E Q D G I C D K L D Q G C N G G L P D N A Y R A I E Q L G G
UniRef90_G3PJI1 UniRef90_F4W7F2	A I G K L V D L S P Q N L V D (C
UniRef90_S4RF02 UniRef90_J3N062 UniRef90_D8LWW8	A T G Q L L T L S E Q Q V L D (C
UniRef90_W9SBQ0 UniRef90_UPI0002C37664	VIT G DIL I ISILIS E Q EIL VID G K T G K L I ISILIS E Q Q L V D	C
UniRef90_D8RKF7 UniRef90_G3PNR6 UniRef90_Q26425	K T G S L V S L S E Q N L V D G Q S G Y L V S L S E Q N L I D G	C
UniRef90_E5FNC3 UniRef90_X1Y3F6 UniRef90_W4YIR4	K T K K L E A Y S E Q E L I D	C S T K Y G N H G <mark>C</mark> N M H K A F Q Y V T D N H G I C D T V D N G C N G G Y M D D A F K I E K L G G L C S G N D G C N G G <u>W</u> P A W A D E Y I K S N G G I
UniRef90_UPI00005EC1C0 UniRef90_H3EIY0	K T G K L V S L S V Q N L V D C K R G K L L Q F S E Q N L V D C	C
UniRef90_Q6NV96 UniRef90_G7ILI4 UniRef90_R4WI47	K N G N L I S L S E Q Q L V D (C S R L E G N F G C F K G S T F K Y V W K N R G L C D R Q S S G C G G G D F V A F D S
UniRef90_UPI0003299CB5	RTGTLVSLSPQNLVD	CSTQDGNLLG <mark>C</mark> RGGYAYSYVIRNGGV
UniRef90_T1J5Y0 UniRef90_H9H3N4 UniRef90_W5K309	N K G K L V S L S E Q E L V D G K T G K L I S L S E Q N L V D G K T G K L I S L S E K Q L V D G	C D S T D E G C N G G Y M T N A Y E A I I K L G G C S W P Q G N E G C G F M D N S F W Y V Q E N G G C S Q S F G N R G C N G G W S F E Y I K S N Q G L
UniRef90_P84347 UniRef90_Q6XRF7	RTGKLISLSEQELLD RTGKLVSLSGQNLVE	DRRSHGCKGGYQTGSIQYVADNGG CSRPEGNEGCNMDQAFQYVKDNQGL
UniRef90_Q650W9 UniRef90_M8C6Q4 UniRef90_N6TLP6	NGGEL VDLSVQEL VD KHGALLEFSEQEL VD	CSTGVFSSPCGYGFALQWIKSKGGL CDKEDQG <mark>C</mark> NGGLMDTAYRVIEKMGG
UniRef90_C7SFR5 UniRef90_G3IEW0 UniRef90_D7LSH3	KTGRLVSLSEQELVDG KTGQLISLSEQNLVDG	CSGNYGNYGCWMDNAFRYLVNKGGI CSWSYGNIGCGIMEYAFRYVKENRG
UniRef90_V5I884 UniRef90_UPI00042AE78E	KTGKL LSLSEQNLLDG KTGRL VPLSEQNLLDG	CTTGYGNAGCGTVDYSFDYVIDNGI CMGLNVTHGCGFMQYAFQYVKDSGG
UniRef90_UPI0002C2E1CA UniRef90_F0WFR5 UniRef90_C5LKN8	STGTLVSFSEQELVDG STGTLVSFSEQELVDG ATGKLRPLSEQOLVDG	C
UniRef90_J3N066 UniRef90_Q8S333	ATKKKVTLSEQQVLD ATGNLMEFSEQELLD	C S G G G D C N G G Y V S T V L S S F A V K K G L C T T N N Y G C N G G F M T N A F D F L L E N G G
UniRef90_I1GN79 UniRef90_W4ZTF7 UniRef90_E1A0V0	RTGKL VSLSEQQL VDC RTGKL MPLSEQQL VDC KNKKL LSFSEQQL VDC	CDQYGGCEGGEIMDNAFQYISRQGGL CDQYDGGCNRGFHRAYNWIVENGGL CSRNEGCNGGWMDNAFKYLIANKGI
UniRef90_B4J6B6 UniRef90_M1AN79 UniRef90_Q6A1I1	KTNKL VALSEQNL VDG ANNEQISLSEQQLIDG KTGOLVSLSEQOLVDG	CSLDNKGCDGGWPLLALAYVRDNRGCSTQNNGCKGGLMTNAYNFLLQNGI
UniRef90_UPI00038BDA82 UniRef90_J3N070	KT GRLASLSPQNLVDO VT GNLLTLSEQQVLD	COS WP Q G N E G C G F M D N S F W Y V Q E N G G G C S WP Q G N E G C G F M D N S F W Y V Q E N Q G G G S WP Q G N E G C G F M D N S F W Y V Q E N Q G G G G S WP Q G N E G C G F M D N S F W Y V Q E N Q G G G G S W P Q G N E G C N G G W S F E Y K S N N Q G G C S R P E G N R G C N G G W S F E Y K S K M G G G C S R P E G N E G C N M D Q A F Q Y V K D N Q G G G C S R P E G N E G C G Y T S Y A F D Y A V S S G G G Y T S Y A F D Y A V S S G G G Y T S Y A F D Y A V S S G G G Y T S Y A F D Y A V S S G S G S G S G G G G M D N A F R Y V N K E N R G G G G C S G S G A G D C S G G G M D N A A F R Y V K E N R G G G G C S W S Y G N G C G G M D N A F R Y V K E N R G G G G C S W S Y G N G C G F M Q Y A F L Y L L R Q G G G G G C S W S Y G N G C G F M D A Y A S F D Y L L R Q R G G G G G C M V G G G G G G G G G G G G G G G G G G
UniRef90_UPI00046BEF95 UniRef90_I3J3N4 UniRef90_M0RDV7	RHGKLLEFSEQELVDG RTGTLVSLSPQNLVDG KTGKLSPLSVONLVDG	CDTDDQG <mark>C</mark> NGGLMDTAYRSIEKIIGG CSTQDGNLGCGYITKAYSYVIRNGG CSRSEGTMGCGRIIYNAEOYWKNNGG
UniRef90_G3PJR4 UniRef90_W5ANZ6	KTGKLVDLSPQNLVDC KTGTLVPLSEQQLVDC	C S G K Y G N H G C N M D K A F E Y V H D N Q G I C D K Y D G G C N R G Y Y H A F Q W M E N G G L
UniRef90_Q6T857 UniRef90_UPI00046D9FAA UniRef90_J9JCA5	N Q K A NII S F S E Q Q L V D G I T G N L I S L S E Q E I I D G S N N K L I S I S F O O I V D G	U S G D Y G N R G C G F M E H A Y E Y L Y E V G L C T T S D G C H G G F V E K A F Y M I Q R N M S L C S H D G N N G C N G G F M Y A F D Y A S K N K M
UniRef90_Q80UB0 UniRef90_K7M1C1	KTGRLVPLSEQNLLDO VSGDLISLSEPELVD	C M G S N D C S G G F M Q N A F Q Y V K D N G G L C D T N D G C D G G H M D Y A F E W V M H N G G L
UniRef90_UPI0003333AAC UniRef90_M8A6A1 UniRef90_UPI00038C05C0	KTGKLISLSVQNLVDG RTGELVSLSEQQLVDG KTGKLIPISVQNIVD	C S R P Q G N L G C G L M P H A F Q Y L K D N G G C D T G S S G C S G G R S D T A G L L A S H G G L C S K P H G N N G C G O L Y A A F R Y V L H N G G
UniRef90_A4KBK6	ATGKĽ ÚSFSEQQĽ VD	CSTAFGNHG <mark>C</mark> NMDNSFNYLI HNKGL

UniRef90_W5LHN3 UniRef90_I1GSS7	90 100 110 120 D S D A S Y P Y N G M D G Q C K Y N P S D R A A N C T S Y S F L P E G N E E A L T T E A N Y P Y T G K A G K C D R G K A S N H A A K I A A Q M V R A N S E A E
UniRef90_M4DG64 UniRef90_G5A647	VALDDYPYTATDTG <mark>C</mark> DQEKSQNKI VTI TGYEKVAPNE AS DREEDYEYTAESRGVCNAKDDKAI GHFTAYANVTSGDEAA
UniRef90_F0ZT73 UniRef90_L8H3R5 UniRef90_Q8WQZ8	ATESSYPYTAAQGRCKFTKSMNGA NIIGYKEI PQGEEDS DSEASYPYVAADGQCRFNPKTVYGGKGGTLKSLPKGDEKA DTEASYPYQTAGPLTCQYNAANKGGSLTGYTDVTSGDENA
UniRef90_G1T0K7 UniRef90_H2ZRS7	D S E A S Y P Y K A M D Q K C H Y D S K H R A A T C S K Y T E L P F G S E E A L D S D A S Y P Y V A Q D R P C R Y N P A N K A A T C S S Y Q F L P Y G S F T A L
UniRef90_UPI0002657694 UniRef90_R4WQK9	DTEESYPYEAENGK <mark>C</mark> RFRED <u>SI</u> GAT <u>U</u> SGYQTIPKGSEAD DTEESYPYEAENGK <mark>C</mark> RFKKAS <u>IG</u> AT <u>L</u> KSYT <u>DVK</u> SGSESAL
UniRef90_Q70P88 UniRef90_UPI00020F7082 UniRef90_D1G103	DIEGAYPYIIGODNECKYRAECSGANWIIGEWIDIIPSMNERAII
UniRef90_Q2V9X2 UniRef90_U3IYU5	DTEASYPY QAHDER CRFKAS DIVIGAT CTGYIVIDII KREDENALL DSDESYPY MAONGT COYNIVISTRAAT CSKYVIEU PYADEAAL
UniRef90_UPI0000F615D5 UniRef90_W1Q0E9	LDSEESYPYVEHETTCRYNPETSAANDTGFVDIHKREKSL DTESDYSYTGQDGTCNTEKEEKKVVSIDGYEDVEE EESA ASEVEYPYETKEGSCRSNLSPAPGTQLKGFQQVPSNDERA
UniRef90_R0GQ16 UniRef90_X5F5M1 UniRef90_UPI00035A2B52	A S E V E Y P Y E T K E G S C R S N S P A P G T Q K G F Q Q V P S N D E R A D T E K C Y P Y K H V D E R C H F K K S C G A T V T G Y V D V K Q M D E N A L D T E K S Y P Y K P E D R P C N F K S A D V G A R E K A F Q D V T S G S E D E L
UniRef90_Q1MTY5 UniRef90_G1QA95	DTEASYPYRAVDSTCKFNTADVGATTSGYVDVTKDSESDL LGSEESYPYQVKVGPCKYRPEDSVANDTGFVDIPEQETAF DSEKSYPYEAVDGECRYKKSDSVTTDSGFVDIPHGDETAL
UniRef90_R7V6C8 UniRef90_UPI00042AE35D	DSFFSYPYFGKDGT <mark>C</mark> KYRPFFSAANDTGY V D PQ FKA
UniRef90_C5IIM1 UniRef90_T2MH98 UniRef90_Q7YT28	DTETGYPYEGQDGTCRYSKSSIGADDTGFVDIPEGDEDAL
UniRef90_Q58HF5 UniRef90_V9KRZ0	D S E A S Y P Y R G Q L Q Q C S Y N P S Y R A A N C S R Y S F L P E G D E G A L D S E D G Y P Y T A T D D P C N Y N P N Y K A T N C T N Y M F V S E G N E T A L
UniRef90_B4KQX9 UniRef90_C4B4C8 UniRef90_G3PJI1	AVGSKYPYVDKKDTCKYTSSLSGAQITGFAVIPPKDEQAM LESEDDYPYEGSDDKCSFNKTLARVQISGAVNITSNETDM DSEAAYPYVGEDQPCRYNSSGMAVQCKGFKEIPVGSEQKL DTEKSYPYEAENDKCRYNPRNSGAIDTGFVDIPRGNEHKL
UniRef90_F4W7F2 UniRef90_S4RF02	DTEKSYPYEAENDK <mark>C</mark> RYNPRNSGAIDTGFVDI PRGNEHKL DSE <u>E</u> SYPYK <u>GQGV</u> ET <mark>C</mark> KYNPKNK <u>AA</u> EVTG <u>YVE</u> I PEGDEEA
UniRef90_J3N062 UniRef90_D8LWW8	T Q A V N Y P A Y L G I Q Q T C R T N P N N P V V K V D G V G T V P Y S S E A A
UniRef90_W9SBQ0 UniRef90_UPI0002C37664 UniRef90_D8RKF7	DSESDYPYTGLDGTCNTTKEKRKVVTTDGYEDVGESDADL AKEKNYPYRGNNNKKCNAKKESHAAKITGYRTIPTQRYDL TSQSNYPYRAQRGACDKDKVKYHAATINGFQAIPPQSEEL
UniRef90_G3PNR6 UniRef90_Q26425	D S E A A Y P Y K G V D N L P C K Y D P M F N S A N D T G F V D V P S G K E H A D T E Q A Y P Y E G V D D K C R Y N P K N T G A E D V G F V D I P E G D E Q K L
UniRef90_E5FNC3 UniRef90_X1Y3F6	DSDAAYPYIGROSOFCHYSPKERAANCSOYSFIIPEGDEGA
UniRef90_W4YIR4 UniRef90_UPI00005EC1C0 UniRef90_H3EIY0	ELEDEYPYQAKAQKT <mark>C</mark> HFNKTLSHVRVKGAVDMPKNETFI DTEVGYPYEGVDDSCHYRTSDVGATITGFAEVEADSEKAL DTEECYPYVAQDNECKYQPECSGANVTGFVKIPSTDERAL DTEDAYPYKGEDDTCHFDRKSVGETDDGFHQVPEGDEETL
UniRef90_Q6NV96 UniRef90_G7ILI4	E A E S T Y P Y K G T D G H C R Y H P E R S A A R II T S F S F IV S N S E K D L V K E D D Y P Y K A N D IV Q T C Q L G Q II P G A A Q II N G Y F K IV P A N D E Q Q
UniRef90_R4WI47 UniRef90_UPI0003299CB5 UniRef90_A0A059CLZ8	DTEESYPYRGKEQKCKFSPENIGANMTGYAKI KRGSQLAL DSESFYPYEHKNGKCRYSVQGRAGYCSKFSVLPEGDEKML ETEEAYPYTAQNGTCKFSARRVAVQVVDSVNISMGAEDEL
UniRef90_T1J5Y0 UniRef90_H9H3N4	LEGEADY PYEAK DOK CHFQK A DVRVT I KSYVNISHDETEM LDSEASYLYEGKVKT CRYNPK YSVANDT GFVDIPSREKDL EADFTYPYKAREET CRFNPQRVVAT CSGFECL PQGDENAL
UniRef90_W5K309 UniRef90_P84347	EADFTYPYKAREET CRFNPQRVVAT CSGFECL PQGDENAL VTEKEYPYEKKQGKCRAKEKKGTKVQLTGYKRVPANDELS
UniRef90_Q6XRF7 UniRef90_Q650W9 UniRef90_M8C6Q4	VTEKEYPYEKKQGKCRAKEKKGTKVQITGYKRVPANDEIS DSEDSYPYLGTDDQPCHYDPKFSAANDTGFVDIPSGNERA TTGENYFYYPAQEPCRFDPNKAPIVKIDSYSFVDPNDEEA LTEAEYPYLAKRGRCTVQDAARRIGKITGVQEVPGSSESA
UniRef90_N6TLP6 UniRef90_C7SFR5	LESESDYPYEGADET <mark>C</mark> IFNKGKVKVQVTGALNISQNETDM HTEDSYPYEGOVGOCRANYGELGATCTGYYDLPSGNEHAL
UniRef90_G3IEW0 UniRef90_D7LSH3 UniRef90_V5I884	LDTRVSYPYEARNGPCRYDPKNSAANVTDFVKIPISEDAL TSEENYPYQAVQQTC KSTDPAAATISGYEAVPKDDEEA ESESDYPFQGVDGSC SYSQSRSALQISSYVCLTYDSESE
UniRef90_UPI00042AE78E UniRef90_UPI0002C2E1CA	LATAESYPYKGRGRKCRNHTENSAANVRDFMQIPGHEEAL TNEANYPYTASDNVCNATEVDTPSGSITAYEDVPVNSELD DPEDVYKYTAVSKGLCRAEDEKAVGHFTSYMNVSSGDEKA
UniRef90_F0WFR5 UniRef90_C5LKN8	DPEDVYKYTAVSKGLCRAEDEKAVGHFTSYMNVSSGDEKA DQESTYPYKGVNEPCR PREKKADGLPVRFVLDTKTEQS ALSQSYPRYSAAKMACRTTPRTPVVKMDGAASVPSSNEAA
UniRef90_J3N066 UniRef90_Q8S333 UniRef90_I1GN79	II IS R E S D Y E Y IL IG Q Q Y I C R S Q E K I A A IV IQII IS S Y Q IV V IP E G E I S IL
UniRef90_W4ZTF7 UniRef90_E1A0V0	A S E S A Y P Y S G E D G G S C R S G R A Q P A A S I R G H E D V P A N N E G A T T A A E Y P Y T A A R G A C N R A K S A H H V V K I L G G G V I P P R N E P E A T E D T Y P Y T A T D G V C V Y N K T M A A G R I S S F K D V K H G S E D Q L
UniRef90_B4J6B6 UniRef90_M1AN79 UniRef90_Q6A1I1	IDTESSYSYKGHKSDCHFDQGHIGATVREICLAKINDEAN TTESNYPYEETQSICST ELQSAAVTISGYEVVPASESAL DSEESYPYRAHDEKCHFVPSEVSATVSNVVNITSKDEMQL
UniRef90_Q6ATT UniRef90_UPI00038BDA82 UniRef90_J3N070	TLQCNYPPYAMDDQCRLDPSMTPLVKIIDGYAAVPANNEKA
UniRef90_UPI00046BEF95 UniRef90_I3J3N4	
UniRef90_M0RDV7 UniRef90_G3PJR4 UniRef90_W5ANZ6	DSDASYPYKGOILIQQCSYDAAHRAANCSGHNEILIPEGDEGAILI
UniRef90_Q6T857 UniRef90_UPI00046D9FAA	ETESSYPYKAEEGP <mark>C</mark> KYDSRLGVAKVNGFYFDHFGVESK STEDGYPYKAVDGGVCFNNVASGALTILTGYKOVPONDELA
UniRef90_J9JCA5 UniRef90_Q80UB0	ATEESYPYLGPGRKC SYEASKGKMEADHFQRVPKNSPAQ ATEESYPYLGPGRKC <u>R</u> YHAENS <u>AA</u> NVRDFVQIPGREEAL
UniRef90_K7M1C1 UniRef90_UPI0003333AAC UniRef90_M8A6A1	T S F F R Y P Y S G Y S G S C D V D K I F D H Q A S V T G F K S V P P N D F R Q
UniRef90_UPI00038C05C0 UniRef90_A4KBK6	VEAEATYPYKGREGP <mark>C</mark> RYNPQNVÄAKIREYVTLPEDEDIL ESEASYPYEAQKKE <mark>C</mark> RYKKALSKGTISSFTDVSQFDEKDL

UniRef90_W5LHN3	130 140 150 160 <u>K</u> T A <u>VA</u> T <u>I G P V S V A I D A T R P Q <u>F I L Y R S G V Y Y D P S C T K N <u>V</u> N H</u></u>
UniRef90_I1GSS7 UniRef90_M4DG64	L E <u>R</u> A V A R Q P V A V A I N A
UniRef90_G5A647 UniRef90_F0ZT73 UniRef90_L8H3R5	L Q A A I T T K G V Q V A I D A S S F T F Q L Y R H G V Y S W P L C H G V A A A L T A A L A K Q P V S V A I D A S H M S F Q L Y S S G V Y D E P A C S S E D H G L L V A A A R Q P I S V G I D A G R P S F Q F Y S K G V Y N E P E C S S T E L N L L N A A V K E P V S V A I D A S H N S F Q F Y S G G V Y Y E C S S T Q L D H G
UniRef90_Q8WQZ8 UniRef90_G1T0K7	L LNAAVKEPVSVAI DASHNSFQFYSGGVYYECSSTQLDHG KEAVANKGPVSVAI DASHSSFFLYRSGVYYEPSCTNVNHG QKALALVGPI AVAI DATRTSFFLYKRGVYDDPSCSHSVNH
UniRef90_H2ZRS7 UniRef90_UPI0002657694 UniRef90_R4WQK9	LQKAVSTIPISVAIDVSNPSFQNYREGVYYEPSCSNLDHA QSAVANVGPISVAIDAGEFSFQFYESGIYYESACSPSDHG
UniRef90_Q70P88 UniRef90_UPI00020F7082	QSAVANVGPISVAIDAGEFSFQFYESGIYYESACSPSDHG LKIAVATQPISVAIDAGHRSFQLYAHGVYDECSPDNLGHG MKAVANVGPISVAIDAGNPSFQFYESGVYYEPQCSQLDHG
UniRef90_D1G103 UniRef90_Q2V9X2 UniRef90_U3IYU5	K D A L A S V G P I S V A I D A S H A S F Q S Y D G G V Y D E C S S Q N L D H G M Q A V E K I G P V S V A I D A S H S S F Q L Y R S G V Y Y E R E C S Q T A L D K D A V A N I G P V S V A I D A T Q P T F F L Y K S G V Y D D P R C T Q E V N H
UniRef90_UPI0000F615D5 UniRef90_W1Q0E9	MKAVAL VGPI SVGI DAGHSTFQFYKEGI YYEPNCSSGYGF LLCAVVNQPI SVGI DGSALDFQLYSGGI YDGLCSSNPDDI LLEAVSRQPVSVYMDSRSFGFGNYKEGVYEYTPQDCDHHE
UniRef90_R0GQ16 UniRef90_X5F5M1 UniRef90_UPI00035A2B52	L L E A V S R Q P V S V Y M D S R S F G F G N Y K E G V Y E Y T P Q D C D H H E L Q A S A T I G P I S V A I D A G H Q S F Q M Y S H G V Y N E P R C S Q T Q L D Q K A V A G V G P I S V A I D A S H G S F Q L Y S G G V Y D E P E C S S T D H G
UniRef90_Q1MTY5 UniRef90_G1QA95	QVAVATI GPVSVAI DASHTSFQFYSSGVYDPCSSTNLDHG MKAMATVGPI SVAI DASHLSFQFYEDGI CYERHCSSGDHG
UniRef90_R7V6C8 UniRef90_UPI00042AE35D	RTAVASVGPVSVAI DASHTSFQFYKTGVYTEANCSSTQLD MKAVALVGPVAVAI DASHPSFQFYSKGVYYEPNCSSKELD
UniRef90_C5IIM1 UniRef90_T2MH98 UniRef90_Q7YT28	K D A V A N I G P V S V A I D A T Q P T F F L Y K S G V Y D D P R C T Q E V N H M K A V A L V G P I S V G I D A G H S T F Q F Y K E G I Y Y E P N C S S G Y G F L L C A V V N Q P I S V G I D G S A I D F Q L Y S G G I Y D G L C S S N P D D I L L E A V S R Q P V S V Y M D S R S F G F G N Y K E G V Y E Y T P Q D C D H H E L Q A S A T I G P I S V A I D A G H Q S F Q M Y S H G V Y N E P R C S Q T Q L D Q K A V A G V G P I S V A I D A S H G S F Q L Y S G G V Y D E P E C S S T D H G Q V A V A T I G P V S V A I D A S H L S F Q F Y S S G V Y D P C S S T N L D H G M K A M A T V G P I S V A I D A S H L S F Q F Y E D G I C Y E R H C S S G D H G R T A V A S V G P V S V A I D A S H L S F Q F Y S K G I Y Y E P N C S S K E L D K N S V A E V G P V S V A I D A S H P S F Q F Y S K G I Y Y E P N C S S K E L D K N S V A E V G P V S V A I D A S H M S F Q F Y H S G V Y D E P K C S S T D H G K Q A V A T V G P V S V A I D A S H M S F Q F Y H S G V Y D E P C S S T N L D A G H S S F Q L Y S G G V Y D E P C S S T D H G K Q A V A T V G P V S V A I D A S H M S F Q F Y H S G V Y D E P C S S T K M D Q Q A V A T V G P I S V A I D A G H S S F Q L Y S G G V Y D D P T C T Q R V N H
UniRef90_Q58HF5 UniRef90_V9KRZ0	A MAVA T L G P I S L A I D A T H Q S F Q F Y H H G V Y Y E P D C T D Y T M S
UniRef90_B4KQX9 UniRef90_C4B4C8 UniRef90_G3PJI1	AKWLVKHGPISIGINANAMQFYMGGISHPWRCNPSNLDHG AQALSKVGPVSVGIDAGLGTFQFYMGGIYYDSNCNDINHA
UniRef90_F4W7F2 UniRef90_S4RF02	KAAVATI GPVSVAI DASHESFQLYSEGVYFDPECDNLDHG LKNAVAVGPVSVAI DASLNSFLYYISGI YKDKLCSHI I NH LKNRVSKQPVSVGVSAS <u>ESYVL</u> YKGGVYAGP <mark>C</mark> NTSLNHA
UniRef90_J3N062 UniRef90_D8LWW8 UniRef90_W9SBQ0	L K N R V S K Q P V S V G V S A S E S Y V L Y K G G V Y A G P C N T S L N H A L K Q A V S Q G P V S V A V E A D S T V T G G T V D G D C S H D P N D L C A T V Q Q P S V A T D G S A W D F Q L Y T G G T S C G T S L N H A T T G T T T T T T T
UniRef90_UPI0002C37664 UniRef90_D8RKF7	L LMAVS TQPVSVAI DVQGDAFQSYHKGVFSGSCGHDVNHA L LRAVANQPVSVAI EAGGQDFQLYSSGVFTGECGSNLDHG
UniRef90_G3PNR6 UniRef90_Q26425 UniRef90_E5FNC3	K T V I A T Q G P L A C S V Y G L E S L L L Y K R G I Y A D E E C N N G E V N H A K W L V K H G P I S I G I N A N A M Q F Y M G G S H P W R C N P S N L D H G A Q A L S K V G P V S V G I D A G L G T F Q F Y Q R G I Y Y D S N C N D I N H A K A A V A T I G P V S V A I D A S H E S F Q L Y S E G V Y F D P E C D N L D H G L K N A V A V Q P V S V A I D A S L N S F L Y Y L S G I Y K D K L C S H I I N H L K N R V S K Q P V S V A V E A D S L N F L Y Y L S G I Y K D K L C S H I I N H A L K Q A V S Q Q P V S V A V E A D S L V F Q M Y T G G V Y A G P C N T S L N H G L C A T V Q Q P I S V A I D Q S A W D F Q L Y T G G I Y D G D C S H D P N D L L M A V S L Q P V S V A I D D Q G D A F Q S Y H K G V F S G S C G H D V N H A L L R A V A N Q P V S V A I D A G H E S F Q F Y Q S G I Y Y E E G C S S G Y G A M E A V A T V G P V S V A I D A S H T H F Q L Y S S G V Y N E C S S T D L D H G L K Q A L A T L P I S V A I D A S R P R F A F Y S S G V Y D D P S C S Q D V N H A Q Y L I E N G P I S V A I D A G R P S F Q L Y E S G V Y D P S C S C D D H G E K A L A Q V G P I S V A I D A G N P S F K F Y Q S G V Y D P Q C S S S T D H C M K A V A N V G P I S V A I D A G N P S F K F Y Q S G V Y D P Q C S S S T D H C M K A V A N V G P I S V A I D A G N P S F K F Y Q S G V Y D P Q C S S S T D H C M K A V A N V G P I S V A I D A G N P S F K F Y Q S G V Y Y D P Q C S S S T D H C M K A V A N V G P I S V A I D A G N P S F K F Y Q S G V Y Y D P Q C S S S T D H C M K A V A N V G P I S V A I D A G N P S F K F Y Q S G V Y Y D P Q C S S S T D H C M K A V A N V G P I S V A I D A G N P S F K F Y Q S G V Y Y D P Q C S S S T D H C M K A V A N V G P I S V A I D A G N P S F K F Y Q S G V Y Y D P Q C S S S T D H C M K A V A N V G P I S V A I D A G N P S F K F Y Q S G V Y Y D P Q C S S S T D H C M K A V A N V G P I S V A I D A G N P S F K F Y Q S G V Y Y D P Q C S S S T D H C M S N C S T D T C S S T D T C S S T D T C S S T D T C S S T D T C S S T D T C S S T D T C S S T D T C S T T T T T T T T T T T T T T T T T
UniRef90_X1Y3F6 UniRef90_W4YIR4	A Q Y L I E N G P I A I G L N A N A M Q F Y R G G I S H P WH C S H K Q I D H G E K A L A Q V G P I S V C I D A T Q P S F Q L Y E S G V Y D E P D C S S T D H C M K A V A N V G P I S V A I D A G N P S F K F Y Q S G V Y Y D P Q C S S S N H G K N V L A T V G P L T T A I D V D H L S F Q A Y K E G V Y Y E P N C E S L H H A M R A V A T I G P I S V G I D A R H K S F R L Y R E G I Y Y E P K C S S N N H S
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UniRef90_T1J5Y0 UniRef90_H9H3N4 UniRef90_W5K309	A Q WL Y K N G P M S I A I N A N A M Q F Y F G G V S H P C N P D N L D H G A K A V A T V G P V S V A V D A S H F S F Q F Y K K G I Y F E P R C D P E D H A K K A V A K I G P I S V A I D T S K H T F Q L Y K S G V Y D E P G C S S T R H A
UniRef90_P84347 UniRef90_Q6XRF7 UniRef90_Q650W9	LIQGIGNQPVSVLHESKGRAFQLIYKGGIFNGPCGYKNDHA LMKAVAVQGPVSVAIDAGHESFQFYQGGIYYECSSEELDHG
UniRef90_M8C6Q4 UniRef90_N6TLP6	LALAV LGRPVAVQI DGSGPVLQNYKSGVYKGPCTTSQNHVAKWLVQNGPISIAINANAMQFYFGGISHPWASLCSPNDHGKEAVATFGPVSVAIHASDQSFQLYHSGVYNNPYCSGTALDMKAVATVGPISVGVDSHHHSFRFYKGGMYYEPHCSNLDHALLKAVSQHGIFEDEYCGTDSHHAVTIVGYGTS
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UniRef90_I1GN79 UniRef90_W4ZTF7 UniRef90_E1A0V0	LMAAVAHQPVSVAI NGGDYVFRFYGAGGNGGCESTELDHA MQVAVAGQPIGVAIEVG SGMQFYKGGVYSGPCGTNLAHA KLAVAQIGPISVAIDASSGDFQFYKKGVYVDEECSSKYLD
I IniPetan R4 ISBS	LAAVVATRPISVTINVNNKFLHYRKGVFNDASCGKITNHA LQAVANQ PISVGVAANEEFHFYNGGIYEGSCSPKLNHA
UniRef90_Q6A1I1 UniRef90_UPI00038BDA82 UniRef90_J3N070	Y N A IV G I V G P V S II A Y D V S A D F R F Y K K G V Y K S K E C K T D P E H V M H A V A T I G P I S V G I D A R H E S F K L Y R G G I Y Y E P N C R S I N H S I K R O V Y V O P V T V Y I F A S Y D F O I V T G O D C G T Y I D L A
UniRef90_UPI00046BEF95 UniRef90_I3J3N4	AKWEVANGPISIAINANAMQFY MGGVSHPCSPKNLDHG LQKVLAVGPISVAVNAMLESFHMYSGGLYNVPSCNPLNHA
UniRef90_M0RDV7 UniRef90_G3PJR4 UniRef90_W5ANZ6	LINAIL VINII GPII IAIVIGII DA QHESFKKYAGGII IYHEPNCDSPNHS KEALATII GPII SVAII DATRPRFAFYKSGVYDDASCTQVNHG
UniRef90_Q6T857 UniRef90_UPI00046D9FAA	LAHLVGDKGPAAVAVDVESDFLMYRGGIYASRNCSSENHA LLLAVANQPVSVYIDAEAEEFKHYSGGVYTGPCGTNLTHA
UniRef90_J9JCA5 UniRef90_Q80UB0 UniRef90_K7M1C1	LIKAALIANGPIVISIVIAII EADNEVIFQAYDGGIINSKECGTNLDHG MKAVAKVGPIISVAVDASHDSFQFYDSGIIYYEPQCKRVHHA LCATVKO PIISAGIIDGSSWDFOIIVIGGIIVDGDCSSDIIDHA
UniRef90_UPI0003333AAC UniRef90_M8A6A1	L Q A V A N Q P I S V G V A A N E E F H F Y N G G I Y E G S C S P K L N H A Y N A V G T V G P V S I A Y D V S A D F R F Y K K G V Y K S K E C K T D P E H V M H A V A T I G P I S V G I D A R H E S F K L Y R G G I Y Y E P N C R S I N H S L K R Q V Y V Q P V T V Y I E A S Y D F Q L Y T E G V F T G D D C G T Y L D H A A K W L V A N G P I S I A I N A N A M Q F Y M G G V S H P C S P K N L D H G L Q K V L A V G P I S V A V N A M L E S F K K Y A G G I Y H E P N C D S P N H S K E A L A T I G P I S V A V N A M L E S F K K Y A G G I Y H E P N C D S P N H S K E A L A T I G P I S V A I D A T R P R F A F Y K S G V Y D D A S C T Q V N H G L Q S A V A R Q P I G V A I E V P S S M Q F Y K S G V Y T D A S C S E N H A L A H L V G D K G P A A V A V D V E S D F L M Y R S G G V Y T G P C G T N L T H A L K A A L A N G P V S V Y I D A E A E E F K H Y S G G V Y T G P C G T N L T H A L K A A L A N G P V S V A V D A S H D S F Q F Y D S G I Y Y E P Q C K R V H H A L C A T V K Q P I S V A V D A S H D S F Q F Y D S G I Y Y E P Q C K R V H H A L C A T V K Q P I S A G I D G S S W D F Q L Y I G G I Y N P D C S S I D H A M N A V A T V G P I S V G V D A N H V K F Q F Y K S G I Y Y N P D C S S I D H A M N A V A T Q G P I A A E M H V Y K S F S F Y S G G I Y Y E P N C S S I D T N H K R A V G L V G P V S I A I D A S Q F S F H L Y D S G V Y D E E D C S Q T N H G
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UniRef90 W5LHN3	170 180 190 200 G V L V V N G E D Y W L V K N S W G T G F G D G G Y I R M A R N K G N M C
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UniRef90_M4DG64	<u> </u>
UniRef90_G5A647	GYGVYKKKDFWLVKNSWGDSWGMKGYI MMSRNKDNQ C
UniRef90_F0ZT73 UniRef90_L8H3R5	V L A V G Y G K D Y Y I I K N S W G P T W G Q D G Y I F M S R N A Q N Q C H W G V E R G Q A Y W L V K N S W G Q T W G M D G Y I K M S R D K N N Q C
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UniRef90_H2ZRS7	G V G T L N G K D Y W L I K N S W G T S F G D Q G Y I R M A R N Q G N Q C
UniRef90_UPI0002657694	V L V V G Y G E D Y W L V K N S W G T S F G E Q G Y V R M A R N K G N N C V L A V G Y G S N Y W I V K N S W G E D W G D K G Y I L M A R N K N N N C
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UniRef90_UPI00020F7082	V L V V G Y G T D Y WL V K N S W G E H W G E N G Y I R M S R N K D N Q C V L V V G Y G D E Y WI V K N S W G E E W G K K G Y V L M A K F R N N H C V L T V G Y G T D Y WL V K N S W G E M W G E E G Y I K M S R N K D N Q C
UniRef90_D1G103	V L T V G Y G T D Y W L V K N S W G E M W G E E G Y I K M S R N K D N Q C
UniRef90_Q2V9X2	HYGTEGGSDYWLVKNSWGTDWGMEGYI MMSRNRNNN CGVLVLNDKDYWLVKNRWGVRFGDDGYI RMSRNHANH
UniRef90_U3IYU5 UniRef90_UPI0000F615D5	G <u>V L V L</u> N D K D Y WL V K N R WG <u>V</u> R F G D D G Y I R M S R N H A N H
UniRef90_W1Q0E9	DHAVLIDEDYWI VKNSWGTSWGINGYIYIRRNIDLEYGV <mark>C</mark>
UniRef90_R0GQ16	<u>VN HV VY GK NY WL AK NS WGET WGEEGY I RILRRDVA MRQGM</u> C
UniRef90_X5F5M1 UniRef90_UPI00035A2B52	HYGTESGQDYWLVKNSWGATWGQNGYI MMSRNKNNQ CVLAVGYGTQYWI VKNSWGTSWGMEGYI LMSRNKDNQ C
UniRef90_Q1MTY5	V L AV G Y G K D Y WL V K N S W G A S W G M S G Y I E M V R N H N N K
UniRef90_G1QA95	ILVVGYGFKYWIVKNSWGEAWGKNGYIKMAKDRNNH C
UniRef90_R7V6C8	HYGVENGQDYWLVKNSWGASWGEAGYLKMARNHGNQ
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UniRef90_C5IIW1	HYGTDNGKDYWLVKNSWGTGWGTEGYIYMSR NNQNQC
UniRef90_Q7YT28	<u>H Y</u> G T E E G K D Y W L V K N S W G A S W G E K G Y I K M S R N R <mark>H</mark> N N W
UniRef90_Q58HF5	GVGTESGQDYWLVKNSWGTSFGDKGYI RMSRNKNDQ C
UniRef90_V9KRZ0 UniRef90_B4KQX9	HLTVGYGRNYWI VKNSYSTSWGDKGY <u>I I M</u> SKDKMNN C SVLVENGQDFWI VKNSWDKI WGEDGYFRL PRGKN FC
UniRef90_C4B4C8	VLIVGYGAPYWIIKNSWGTSWGEQGYYRVYRGD GTC
UniRef90_G3PJI1	V
UniRef90_F4W7F2	VLIVGYGTDS KTGHDYWLGKKSYIKMARNKDNH C AVLVEKGDKFWLVKNSWGVQWGEKGYVRMARDDNN LC
UniRef90_S4RF02 UniRef90_J3N062	VLAVGYGTDYWI VKNSWGASWGEGGYMRMKRGVG KEGL
UniRef90_D8LWW8	VLAVAVA GADYWI VKNSWGESWGDKGYLKI KY TE <u>S</u> GAGII <mark>C</mark>
UniRef90_W9SBQ0	D H G V E G G E D Y W V K N S W G T N W G M G G Y F K R N T N L E Y G V <mark>C</mark>
UniRef90_UPI0002C37664 UniRef90_D8RKF7	VTTTIGYGTNYWLVKNSWGLDWGDNGYMKILRGPSLSEGHC VALVGYGRQYWLVKNSWGSGWGESGYVRMER QGPGAGVC
UniRef90_G3PNR6	ETEDEDGKKFW V KNSWGEKWGDGGY YMAKDRKNH C
UniRef90_Q26425	<u> </u>
UniRef90_E5FNC3	GVGTLNGQDYWLVKNSWGQTFGDNGYLRMARNKNDQ
UniRef90_X1Y3F6 UniRef90_W4YIR4	V L I V G Y G V P Y W T I K N S W G P K W G E Q G Y Y R I Y R G D N S V T A V G Y G D K Y Y I V K N S W G T T W G Q E G Y I W M S R D K Q K Q C
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UniRef90_G7ILI4 UniRef90_R4WI47	VTI
UniRef90_UPI0003299CB5	V
UniRef90_A0A059CLZ8	N H G V E N G V P Y W L I K N S W G E I W G D K G Y A K V E M G K N M C
UniRef90_T1J5Y0 UniRef90_H9H3N4	VLIVGYGKPYWIVKNSWGPSWGEQGYYRVYRGD GTC MLAVGYGYKYWLVKNRTGKNWGMDGYVKMAKDRGNN
UniRef90_W5K309	VL L V G Y G N Q Y <u>W</u> L <u>V K N S W G L</u> R W G D N G Y 1 K <u>M</u> S R N K M N Q <mark>C</mark>
UniRef90_P84347	VITALICY CK A OLLIDKING PINWCEK CYLKLK PASCKSECT <mark>C</mark>
UniRef90_Q6XRF7	VLAVGYGFQFWIVKNSWSENWGDKGYIYMAKDRKNH CVLVVGYGTPYWIVKNSWSENWGDKGYIYMAKDRKNH CVLVUGYGTPYWIVKNSWGAGWGESGYIRMIRNIPAPEGIC VTLVGFGEEYWIAKNSWGETWGQKGFFFVRRGADGPRGLC VLIVGYGVHYWIVKNSWGPSWGEQGYYRVFRGD GTC
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UniRef90_N6TLP6	V L I V G Y G V H Y WI V K N S W G P S W G E Q G Y Y R V F R G D G T C
UniRef90_C7SFR5	HIGIEIGQDIWLVKNSWGPAWGDQGIIKWSKNKINQ U
UniRef90_G3IEW0 UniRef90_D7LSH3	V L V V G Y G N K Y WMV K N S W G Q G W G M N G Y L K M A R D R N N N F F G L K Y W L L K N S W G F S W G F N G Y M R L K R D V D F P O G M C
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UniRef90_E1A0V0	HTDKGTGLDYWLVKNSWSASWGDQGYIKMAR NHKNMC
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UniRef90_M1AN79	VTVI GYGTKYWI VKNŚWGRGWGEEGYMRI ARDVGVDGGH <mark>C</mark> NHAVESGEDYWI VKNŚWGTKFGINGYFWI ARG ENM <mark>C</mark>
UniRef90_Q6A1I1 UniRef90_UPI00038BDA82	VLLVGYGYKYWLIKNSHGEKWGMNGYMKLARDKNNHC
UniRef90_J3N070	V
UniRef90_UPI00046BEF95	V L I V G Y G V H Y W I V K N S W G T G W G E Q G Y Y R V Y R G D G T C
UniRef90_I3J3N4 UniRef90_M0RDV7	VLLVGYGQDYWLVKNSWGTAWGEGGYLRLARNKNN LC MLLVGFGYKYWLVKNSYGEQWGEKGYMKLPRGQNN YC
UniRef90_G3PJR4	V L A V G Y G E D F W L V K N S W G D R F G D G G Y I R M A R N K K N Q C
UniRef90_W5ANZ6	
UniRef90_Q6T857	MII V V IG Y G T Q Y WII V IK N S W G S II IW G D H G Y II IR M A R N R D N M C
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UniRef90_Q80UB0	V L V V G Y G F E Y WL V K N S W G E E W G M K G Y I K I A K D W N N H
UniRef90_K7M1C1	L <u>V</u> V G Y G E D Y W <u>L</u> V K N S W G T S W G M E G Y <u>L</u> Y R R N T N <u>L</u> K Y G <u>V C</u>
UniRef90_UPI0003333AAC	V L A V G Y G F K Y WF L K N S W G T S W G M N G Y M K L A K D R N N H
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UniRef90_0P100038C05C0	VLAVGYGTDYWKVKNSWTNTWGMEGY <u>IL</u> MSRNKDNQ C

	210
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UniRef90_D1G103 UniRef90_Q2V9X2	GI ATAASYP GI ATQASYP GI ATEASYPTV GI ASYASYP
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UniRef90_UPI0000F615D5	GI ATMASYPTV
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UniRef90_B4KQX9 UniRef90_C4B4C8	
UniRef90_G3PJI1	GIANLASYPIV
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UniRef90_UPI0002C2E1CA	GIATSASYALV
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UniRef90_Q9VN93 UniRef90_Q32PZ8	1 10 20 30 40 L P K E F D WR Q K D A V T Q V K N Q G S C G S C WA F S V T G N I E G L Y A V L P K F V D WR K E G Y V T H V R V Q G R C N S C WA F P V V G A I E G Q M F K
UniRef90_Q24E33 UniRef90_T1MD62 UniRef90_M8AH84	L P K E F D WR Q K D A V T Q V K N Q G S C G S C WA F S V T G N E G V Y A V L P K F V D WR K E G Y V T H V R V Q G R C N S C WA F P V V G A I E G Q M F K I P S E V N W T A Q G A V T P V K N Q G S C G S C WA F S T T G A L E G S Y F L L P S S V D WR R R S A V T N V K L Q G H C G S C WA F S T V G A A V E G I N A I I P A S K D W R E A G I V S P V K N Q G H C G S C W A F S T V G A L E A A F A Q I P E Y I D Y R K K G Y V T P V H N Q G I C G S C W A F S S V G A L E G Q L M K I S A S L D W R Q R G G V T P V K N Q G M C G S C W A F S T I G A I E S H Y K I L P S T V D W R K K N A V T P V K N Q G M C G S C W A F S A T G A V E G I N A I L P S T V D W R E H G G V S P V K N Q G M C G S C W A F S A T G A V E G I N A I L P S T V D W R E K G Y V T P V R N Q G N C G S C W A F S A T G A V E G I N A I L P S T V D W R E K G Y V T P V R N Q G N C G S C W A F S A T G A V E G I N A I L P S T V D W R E K G Y V T P V R N Q G N C G S C W A F S T T G A I E G Q M F W V P D S V D W R A R G A V T E V K N Q R S C G S C W A F S T T G A I E G Q L Y K P A S L D W R K K G V V T A V K D Q G Y C G S C W A F S T T G A I E G Q L Y K D Y R S M G Y V T E V K D Q G Y C G S C W A F S T T G A I E G Q L Y K D T D F D W R E K G V V T A V K D Q G Y C G S C W A F S T T G A I E G Q Y A L L P T D F D W R E K G V V T E V K D Q G A C G S C W A F S T T G A I E G Q Y A L L P T D F D W R E K G V V T E V K D Q G A C G S C W A F S T T G A I E G Q Y A I L P D S L N W R D A G V V G P I K N Q G T C G S C W A F S T T G A I E S Q Y A M
UniRef90_S8EMM8 UniRef90_Q6DJA7 UniRef90_D6WI58 UniRef90_E1ZPX7	S S R S F R K K G AV T E V K N Q G Q C G S C WA F S T V A A V E G L N A L I P A S K D WR E A G L V S P V K N Q G H C G S C WT F S T T G A L E A A F A Q I P E Y I D Y R K K G V T P V K N Q G L C G S C WA F S S V G A L E G Q L M K I S A S L D WR Q R G G V T P V K N Q G Q C G S C WA F A T L G A I E S H Y K I L P S T V D WR K K N A V T P V K N Q A M C G S C WA F S A T G A V E G L N A I L P E N F D WR E H G G V S P V K N Q G H C G S C WT F S T T G C L E S A H L I
UniRef90_E4WS64 UniRef90_UPI00042AC138 UniRef90_Q9FTI3	LPENFDWREHGGVSPVKNQGHCGSCWTFSTTGCLESAHLI FPSFVDWREKGYVTPVRNQGNCGSCWAFAATGALEGQMFW VPDSVDWRARGAVTEVKNQRSCGSCWAFAATEGLVQL
UniRef90_M4A9G2 UniRef90_M0T700 UniRef90_V4NFQ4	P A S L D WR K K G V V T A V K D Q G Y C G S C WA F S T T G A L E G Q L Y K P A S L D WR K K G V V T A V K D Q G Y C G S C WA F S S T G A ME G L N A I L P T D F D WR E K G A V T E V K D Q G A C G S C WA F S T T G A V E G A H F V L P E E Y D WR N F N V V T P V K N Q G M C G S C WA F S V T G N I E G Q Y A I
UniRef90_R4WDK4 UniRef90_H3ES25 UniRef90_081930	L P
UniRef90_A0A022QDZ4 UniRef90_B7FSZ7 UniRef90_V4P882 UniRef90_F0ZBK9	L P E S K D WR E T DIL V S P V K N Q G H C G S C WT F S T T G A L E A A Y A Q L P D Y M N W V Q A G A V T P M K N Q G A C G S C W A F S T T G A L E G A K F L L P T D F D W R E Q G A V T P V K N Q G M C G S C W S F S A T G A L E G A H F L A S I D W R T K G A V T P I K N Q Q C G G C W S F S T T G S T F G A T A I I
UniRef90_Q6QT16 UniRef90_J9IUB3 UniRef90_C5LKN2	L P T D F D WR E Q G A V T P M K N Q G A C G S C WA F S T T G A L E G A K F L L P T D F D WR E Q G A V T P V K N Q G M C G S C WS F S A T G A L E G A H F L A S I D WR T K G A V T P I K N Q Q Q C G G C WS F S T T G S T E G A T A I C G R C WA F S T I A A V E G I N H I P A S I D WR A K G A V T P V L D Q G R C S S C Y T F S A A H A V E G A Y Q I L P T S V D WR N K N V L T P V K D Q G S C G S C WA F S T T G A L E A Q Y A I
UniRef90_K7LUI2 UniRef90_U6IQ39 UniRef90_F6YW01	K WS CQAMK DQGQCGNCWAFSTVATTEGIYQLVPNHIDWRKKGYVTDIKDQGQCGSCWAFSATGSLEGQYKKPPSIDWRTQNCVTPVRDQGSFCSCYAFSAVGALECQWKK
UniRef90_J9HL09 UniRef90_UPI00035E056D UniRef90_O24545 UniRef90_D3TN89	VN WV E Q G A V T P V K D Q G Q C G S C WS F S A T G A M E G H A K I L P N S M D W R D K D L V T P I K N Q Q Q C G S C WA F S A V G S M E G Q H A L F P E N F D W R E K G A V T G I K T Q G K C G S C WA F T T T G S I E G A N F L L P K E F D W R E K G A I S A V K N Q G N C G S C WA F S V T G N I E G L H A V
UniRef90_M1AN92 UniRef90_K1QYP7 UniRef90_Q559Q3	PPSKDWRKHGVVTEVKNQGACGCCWAFSACGAIEGINAL LPNSFDWREHGAVTEVKNQGSCGSCWAFSTTGNIEGQWAI IPKSFDWRDHGAVGKVKNQGSCASCWSFSALGALEGHYYL
UniRef90_C5KUS2 UniRef90_I3KDC2 UniRef90_UPI00046C1F95	L P A A V N Y V A K G W V T G V K D Q G L C G S C W A F S T T G A L E A L H K N L P D S I D W R K K G Y V T P V K N Q G G C G S C W T F S T T G C L E S V T A I P S A I D W R K K G Y V T P V K N Q G G C G S C W T F S T T G C L E S A I A L V D Y R T M G Y V T R V K D Q G F C G S C W A F S T T G A I E G Q L F K
UniRef90_UPI0003EAD254 UniRef90_B5B2Z1 UniRef90_F4Q9B0 UniRef90_I1GUG7	PTSVDWRNKNVLTPVKDQGSCGSCWAFSTTGALEAQYAI KWSCQAMKDQGQCGNCWAFSTTGALEGQYKK PNHIDWRKKGYVTDIKDQGQCGSCWAFSATGSLEGQYKKK PPSIDWRTQNCVTPVRDQGGCGSCWAFSATGAMEGAAKI PNSMDWRDKDIVTPVKDQGQCGSCWAFSATGAMEGAAKI PNSMDWRDKDIVTPVKDQGQCGSCWAFSATGAMEGAAKI PNSMDWRDKGAVTFVKNQQQCCGSCWAFSATGAMEGAARL PNSMDWRDKGAVTGIKTQGKCGSCWAFSATGAMEGAAL PKEFDWREKGAVTGIKTQGKCGSCWAFSTTGSNIEGANFL PKEFDWREKGAVTGIKTQGKCGSCWAFSTTGNIEGGLHAV PNSFDWREKGAVTEVKNQGGSCGSCWAFSTTGALEGHYYII PNSFDWREHGAVTEVKNQGSCGSCWAFSTTGALEGHYYII PNSFDWRDHGAVGKVKNQGSCGSCWAFSTTGALEGHYYII PAAAVNYYWAKGWVTTEVKNQGGCCGSCWAFSTTGALEALHKN PSAIDWRKKGYVTTPVKNQGGCCGSCWAFSTTGALEALHKN PSAIDWRKKGYVTTPVKNQGGCGSCWAFSTTGALEALHKN PSAIDWRKKGYVTTPVKNQGGCCGSCWAFSTTGALEGANAL PSSFDWRTKGAVTSVKDQGGCGSCWAFSTTGALEGANAL PSSFDWRTKGAVTSVKDQGGCGSCWAFSTTGALEGANAL PSSFDWRTKGAVTSVKNQGGCGSCWAFSTTGAVEGANAL PSSFDWRTKGAVTSVKNQGGCGSCWAFSTTGAVEGAHFK PSSFDWRTKGAVTSVKNQGGCGSCWAFSTTGAVEGAHFK PSSFDWRTKGAVTTSVKNQGGCGSCWAFSTTGAVEGAHFK PSSFDWRTKGAVTTSVKNQGGCGSCWAFSTTGAVEGAHFK PSSFDWRTKGAVTTSVKNQGGCGSCWAFSTTGAVEGAHFK PSSFDWRTKGAVTTSVKNQGGCGSCWAFSTTGAVEGAHFK PSSFDWRTKGAVTTSVKNQGGCGSCWAFSTTGAVEGAHFV VPCKWDWRRHGAVTTSVKNQGRCGSCWAFSTTGAVEGGHYKI
UniRef90_C5X412 UniRef90_P83443 UniRef90_I1I0J1	V P C K W D W R R H G A V T P V K N Q K K C G S C W A F G M V G A V E G I N A I V P Q S I D W R D Y G A V N E V K N Q G P C G G C W A F A A I A T V E G I Y K I P C C V D W R S S G A V T G V K F Q G S C Q S C W A F A A V A A I E G M N K I P T A I D W T T K G A V T P V K N Q G S C G S C W A F S T T G S I E G Q Y V L
UniRef90_Q22A69 UniRef90_C5KNC7 UniRef90_J9J3B4	T S V D WR S K G V L T P I K D Q G P C G S C WA F S A T G A L E A Q Y A I V P D S I D WR T K G A V T P V K D Q G Q C G S C WA F S T T G S L E G R D A L
UniRef90_Q/1/S0 UniRef90_Q69G21 UniRef90_K4BE43 UniRef90_A0A044RVL0	P T M D W R K K G A V T R I K D Q G Q C G C C W A F S A V A A I E G L N M L
UniRef90_B4F9F5 UniRef90_B4ESE4 UniRef90_H9K7B7	T V D W R Q K G A V T G I K N Q G Q C G C W A F A A V A V I E G I H Q I L P T E F D W R E H G A V G C G S C W A F S T S G A L E G A N Y L L P I K F D W R D Y N V V T P V K D Q G C G S C W A F S V T G N V F G Q Y A I
UniRef90_M7YMX3 UniRef90_I3S1A0 UniRef90_X1YKP8 UniRef90_E0CPG7	PDSVDWRAAGAVTQVKNQGSCGCCWAFAAVAATEGLVKI LSAEKDWRKESLVSEVKDQAHCGSCWTFSTTGALEAAYAQ QGKCGSCWAFSSTGAVEGQHFR
UniRef90_J9FH61 UniRef90_Q4V894 UniRef90_E1G207	L P T D F D WR D H G A V T A V K D Q G E C G S C W S F S T T G A L E G A H F L I P T N WD WR T Y G V V S P V K N Q G K C G S C W T F S T V G A L E S H F L L L P K F V D WR K K G Y V T R V Q N Q K F C N S C W A F A V T G A I E G Q M F N L P E Q F D WR T K G V V T P V K N Q G S C G S C W A F S V T G N L E G L W A I
UniRef90_I1HPD2 UniRef90_C5KZ14 UniRef90_S9Y6J3 UniRef90_K1RJ54	L P E Q F D WR T K G V V T P V K N Q G S C G S C WA F S V T G N I E G L WA I L P K S F D WR T K G A V T E V K S Q G G C G C C WA F A A V A A T E G L V K I P K S V D WR A A G A V T P V R K Q T G C G C C Y A MA T T E A T E G I F Q I D M G S C G A C WA F S A V G A L E A Q V K L E A Q
UniRef90_UPI000333ECEC UniRef90_E0VWY5 UniRef90_Q5IH77	D MGS C G A C WA F S A V G A L E A QV K L P N A V N WT K E G Y V T P V K D Q G F C L S C WA F A A T G G L E G Q H F R P T S V D WR K K G F V S P V K N Q G A C G S C WT F S T T G A L E S A V A I V P D Y V N WV E A G A V T P I R D Q G A C G S C Y A F A S L A T L E S R L M I P E R I D WR A K G A V T A V E N Q G S C G S C WA F S T A G N V E G Q W F I P C C V D WR S S G A V T G V K F Q G N C A S C WA F A S A A A I E G L H K I
UniRef90_I1NMW2 UniRef90_T1LK68 UniRef90_UPI00042BB013	VPDSMDWRMRGAVITNVKMQGECGACWAFAAIAAVEGINYII
UniRef90_S4RX47 UniRef90_M4BUI3 UniRef90_V4RP05 UniRef90_Q1L8W8	V P G E K D W R E E G A V IS P V IK N Q G K C G S C W S F S I I G C L E S H L K L V P S S M D S R E N G A V T P V IK D Q G D C N C C W A F S A V A A V E G L T K L L P O R V N W T F H G M V S P V O N O G P C G S C W A F S A V G S L F A O M K R
UniRef90_B5SV85 UniRef90_V4B0K1 UniRef90_UPI00045756A4	L P E D F D W R D K G A V I H V K N Q G S C G S C WA F S I I G A L E G S H F L L P K E V D W S K K G Y V T P V Y S Q G Q C G S C WA F A A L G S L E G Q H F K
UniRef90_Q3Y6U7 UniRef90_A4IHZ5 UniRef90_S4RFQ7 UniRef90_E5SIJ0	PESWDWSKKGVIIKVKFQGQCGSGWAFSAIGAIEAAHAII PESIDWRNKNCVTSVKDQGSCIASWAFSSIGALECQNMR PDTMDWRIIYGAVITPVKDQACCGSCWSFATTGTIEGSIIFI
UniRef90_R1DEY5 UniRef90_UPI000441E0DC UniRef90_I1HPD1	I E D R W D W R E H N A V T E V K N Q G M C G S C W A F A T I A N V E G W W A V L P K A V D W V K Q G A V T P V K N Q R H C G S C W A F S T T G A V E G G L A I L P E S L D W R L Y G A V T P V K D Q A V C G S C W S F S T T G S L E G A L F L M P E S V D W R A Q G A V T G V K N Q G S C G C C W A F A A V A A T E G L V K L
UniRef90_B4G780 UniRef90_Q7XRA0 UniRef90_B5X7R9	I PESILDWRRKGFTTPSQNQQS <mark>C</mark> GS <mark>C</mark> YAFSI AESI EGQI FK
UniRef90_K7IXW4 UniRef90_L8Y3A1 UniRef90_H3DPJ7	PGSVDWREKGYVSPVKYQGHCGSCWTFSTTGCLESVTAI PKSLDWREKGFVTKPENQRDCGSCYAYSIAGSIAGQIFR PDSVDYRKKGYVTPVKNQGQCGSCWAFSSVGALEGQLKK PESLDWRTKGYVTPVKNQGACGSCWTFSTTGCLESVTAI

	50 00 70	00
UniRef90_Q9VN93	50 60 70 K T G E L K E <u>F</u> S <u>E</u> Q E L D <mark>C</mark> D T T D S A <mark>C</mark> N G G L M D N A Y K A 1 <u>K</u>	D∏G G
UniRef90_Q32PZ8	KTGKLTPLSVQNLVD <mark>C</mark> SKPQGNKG <mark>C</mark> GTTYNAFQYVL	QNGG
UniRef90_Q24E33 UniRef90_T1MD62	KNNQLISFSEQQLVD <mark>C</mark> SRLYLNMG <mark>C</mark> GLMPRAFRYVK. RTRNLTSLSTQQLVD <mark>C</mark> DKGNGG <mark>C</mark> KGGFKLAFKYLMQ:	A H GII S G GII
UniRef90_M8AH84	VIT G NILIT AILIS E Q EILLID <mark>C</mark> SIVID G N S G W N	
UniRef90_S8EMM8 UniRef90_Q6DJA7	AHGKGVSLSEQQLVDCAGNNGCNGGLPSQAFEYIKYI KTGKLVSLSPQNLVDCDTDNYGCEGGYMTNAFGYRDI	N G G L
UniRef90_D6WI58	RHKRAILISILISEQQILVID <mark>C</mark> IVIGRGGGGGGWILIPTAYSYILIRI	N K G V
UniRef90_E1ZPX7	R T G K L V S L S E Q Q L V D <mark>C</mark> D S E K G <mark>C</mark> G G G L M D F A F D Y I T K I	N_G G I
UniRef90_E4WS64 UniRef90_UPI00042AC138	H H K K A Y N L S E Q Q L V D C A Q D F D N H G C N P S H A F E Y I H Y I K T G N L T L L S V Q N L V D C S K P Q G N N G C G T A Y N A Y K Y V L I	VIG GILI D N K G
UniRef90_Q9FTI3	A T G N L V S L S E Q Q V L D C T G G A N T C S G G D V S A A L R Y I A	A S G <u>G</u>
UniRef90_M4A9G2 UniRef90_M0T700	- 1 1 GDH 1 SH S E Q EH 1 ID C D K 1 N G C Q G G Y M D Y A E E WIV V K I	SNG L NKG I
UniRef90_V4NFQ4	S T G E L V S L S E Q Q L V D <mark>C</mark> D K <mark>C</mark> D D G <mark>C</mark> G G G L M T N A Y E Y L K	E <u>A</u> G G
UniRef90_R4WDK4 UniRef90_H3ES25	K T G S L V S L S E Q E L V D C D K Y D S G C Q G G L F D T A Y H A V E I K Y A E <u>N</u> I S L S E Q N L <u>M</u> D <mark>C</mark> S T <u>Q</u> N Y G <mark>C</mark> Q G <u>G N</u> M A [[A M Q Y]] <u>Q</u> I	E [L]G G N G G [
UniRef90_O81930	A T G K L V S L S E Q Q L V D <mark>C</mark> D H <mark>C</mark> D S G <mark>C</mark> N G G L M N N A F E Y L L P	QSGG
UniRef90_A0A022QDZ4 UniRef90_B7FSZ7	A F G K G I S L S E Q Q L V D C A G A F N N F G C G L P S Q A Y E Y L K I K T G E L V A L S E Q H L I D C D K V D L G C N G G L M D N A F K F M S I	FNGG EAGL
UniRef90_V4P882	ATKELVSLSEQQLIDCDHECGCSGGLMNNAFEYTIKA AKGNLPSLSEQNLIDCSGSYGNNGCNMTLAFEYIIN	ĀĞĞL
UniRef90_F0ZBK9 UniRef90_Q6QT16	A K G N L P S L S E Q N L I D C S G S Y G N N G C N M T L A F E Y I I N I VT G E L I S L S E Q E L V D C D R S Y N Q G C N G M D Y A F E F L I K I	N K GII
UniRef90_J9IUB3	KT GKL I EMSK QQL LECSGGNSGCRGGYMTNAYKYLKI	DNKL
UniRef90_C5LKN2 UniRef90_K7LUI2	A T G K L L S L S E Q Q L V D C S S G Y G N N G C G L M D D A Y E Y L K S T T S M L M S L S E Q E L V D C D S V D H G C D G G Y M E	SAGL
UniRef90_U6IQ39	ĸĸĠĸĿŸŚĘŚĘQQĿŶDĊŚŴŚQĠŃĔĠ <mark>Ċ</mark> ĠĿMŚQAFRYWMI ĸŦŸŖĿ <u>Ÿ</u> ŢĘŚ₽QĖĿŶDĊŚDĠĔĠŊĦĠ <mark>Ċ</mark> ĠĸijĔĸAFĸY <u>M</u> ĸI	RSGA
UniRef90_F6YW01 UniRef90_J9HL09	KTVRL VTFSPQELVD <mark>C</mark> SDGEGNHG <mark>C</mark> GK <u>I</u> EKAFKYMKI QFGTLYSLSEQQLVD <mark>C</mark> SQAEGNEG <mark>C</mark> GWMDQAFQYVE	K Y G V O T A I
UniRef90_UPI00035E056D	KTGNLVNLSESÕLVDCDVNGGCSGGWMDGÄFKŸVIA ATGKLVSLSEQQLVDCDNCDNGCNGGLMTTAYDYLMI	g é é 🗓
UniRef90_O24545 UniRef90_D3TN89	A T G K L V S L S E Q Q L V D C D N C D N G C N G G L M T T A Y D Y L M R T G V L E Q Y S E Q E L D C D T S D S A C N G G P D N A Y E A L E	EAGG KIIGG
UniRef90_M1AN92	VT GEL ISLST QEL VNCDTANKGCEGGLMDPAFKFVI	ŊŅĞŬ
UniRef90_K1QYP7 UniRef90_Q559Q3	SKKKII VISII ISEQEII VID <mark>C</mark> DKIVIDEG <mark>C</mark> NGGII IPSQAYKEII LII	R L G G S G G V
UniRef90_C5KUS2		D H G I
UniRef90_I3KDC2 UniRef90_UPI00046C1F95	N K G K L V P L S E Q Q L V D C A Q D F N N H G C N P S Q A F E Y I M Y I A T G K L L S L A E Q Q L V D C A Q D F N N H G C N P S Q A F E Y L L Y L	N K G L N K G I
UniRef90_UPI0003EAD254	R T G Q L V S L S E Q N L L D <mark>C</mark> S <u>R</u> S Y G T Y G <mark>C</mark> N W <u>M</u> A N A Y D Y V VI	KHGL
UniRef90_B5B2Z1 UniRef90_F4Q9B0	A T D T L V N L S E Q N L I D C S V P Y G N H G C N M L Y A F K Y V I A I A G N T L T G L S E Q N L V D C D C D D G C N G G L Q P N A F Q Y I I G I	N E G V N G G I
UniRef90_I1GUG7	A T G K L	AGGL
UniRef90_C5X412 UniRef90_P83443	K T G K L K S L S E Q E V L D C S G A G T C K G G D P Y K A F D H A K R I R K G N L V Y L S E Q E V L D C A V S Y G C K G G W V N R A Y D F I T S I	PGHQ NNGV
UniRef90_I1I0J1	RTGTL VSLSEQQL VDCDNGSSGCAGGRTDTALDLVA	R R G <u>G</u>
UniRef90_Q22A69 UniRef90_C5KNC7		S A K L S A G L
UniRef90_J9J3B4	ATGTLQSYSEQQLVDCDYSNQGCNGGDMGLAMDYSA	KNPL
UniRef90_Q717S0 UniRef90_Q69G21	K N G T <u>L V</u> S L S A Q E L V D <mark>C</mark> A T E Y Y G <mark>C</mark> N G G <u>L M</u> G Q A F D <u>F V E I</u> A N G Y <u>D S</u> S V S E Q Q L V D <u>C V P</u> N A G <u>C</u> S G <u>G W</u> M N D A F T Y <u>V A Q</u> I	D E GII
UniRef90_K4BE43	KTGKLĪSLSĒQĒL VD <mark>C</mark> DĪNĒG <mark>C</mark> ĒGGLMDNĀFKFLĪKĪ	NNGI
UniRef90_A0A044RVL0 UniRef90_B4F9F5	K S G [L I D L S P Q N I D <mark>C</mark> S R N Y G N K G <mark>C G T V</mark> S R S F E <u>Y A</u> K T T G N L <u>V S</u> L S E Q Q V L D C D T D G N N G C N G G Y N A F Q Y [<u>V</u> G	H Y GII N G GII
UniRef90_B4ESE4	A T G K L E V L S E Q Q L V D <mark>C</mark> D H E <mark>C G C</mark> N G G L M T T A F S Y L A K <i>I</i>	AGGL
UniRef90_H9K7B7 UniRef90_M7YMX3	KYKKL ISLSEQEL LDCDTLDEGCNGGYMENAYKAIEI	9 9 6 6
UniRef90_I3S1A0	ATGNLISMSEQQVLDCTGGANSCNGGDENAALSYVASAHGKNISLSEQQLVDCAGAFNNFGCNPSQAFEYIKY	N G G I
UniRef90_X1YKP8 UniRef90_E0CPG7	K T N K L V S L S E Q N L V D C T S N Y G C K G G A I Y R S F Q Y I E Q I A T G N L V S L S E Q O L V D C D H E C G C N G G L M N T A F F Y L L K	N <mark>H</mark> G I A G G V
UniRef90_J9FH61	A H G K N I S L S E Q Q L V D C A G A F N N F G C N P S Q A F E Y I K Y K Y K T N K L V S L S E Q N L V D C T S N Y G C K G G A N T A F E Y L L K D K Y G Q F R N L S E Q Q L V D C D H E Q G N G G L M R T A F E Y L L K D K Y G Q F R N L S E Q Q L V D C D H E Q G N G G L M R T A F E Y L L K D K Y G Q F R N L S E Q Q L V D C D T A F E Q G C N G G C M R T A F E Y L L K D K T G Q L T P L S V Q N L V D C T K S Q G N E G W G D P H I A A Y E Y V L K T G Q L T P L S V Q N L V D C T K S Q G N E G W G D P H I A A Y E Y V L K T G Q L T P L S V Q N L V D C T T G N N T T C K G G G F Q V N N D A L S Y F A K G C N G G C T A G G T P E N A L S Y F A K Q N K L I S M S E Q Q V L D C T T G N N N T G C K G G F Q V N L V D C S T N K G C C G G G F Q V L N D C S T N K G C C G G G G T P E N A L S Y Y L E L M K T G K L V S L S A Q N L V D C C S T N K G C G G G H S D T A R N N Y I L A S G K M L S L A E Q Q L V D C C S G E G G G G H S D T A R N N Y I L L A S G K M L S L A S Q Q N L V D C C S G E G G G G G G G G G G G G G G G G G	ŊĞĞĽ
UniRef90_Q4V894 UniRef90_E1G207	K T G K L I S L S E Q E L I D C D R I D K G C N G G I P I N A F R F I O	NNGG RMGG
UniRef90_I1HPD2	AKGTLISMSEQQVLD <mark>C</mark> TTGNNT <mark>C</mark> KGGYMNDALSYFA	S G ĞÜ
UniRef90_C5KZ14 UniRef90_S9Y6J3	KTGKLVSLSAQNLVDCSASFGNEGUGFQVNSYHYII EI	N N G I
UniRef90_K1RJ54	KTKKLVRLSEQNLVDCSKENLGCTAGTPENALNYIA	RNGG
UniRef90_UPI000333ECEC UniRef90_E0VWY5	YNKTELQLSVQNVLDCSGEFGNFGCGLARNVYEYVMI	DNEG
UniRef90_Q5IH77	KTGQLVSLSKQQLVDCDRAAQGCNGGWPASSYLELM	YMGG
UniRef90_I1NMW2 UniRef90_T1LK68	RTRNLVSLSVQQLIDCOGSFGCRGGYVASAFKYMIKI	H R G
UniRef90_UPI00042BB013 UniRef90_S4RX47	KTGNLVSLSAQNLVDCSTMYWNHGCFMTYAFQYIIID	N D G L
UniRef90_M4BUI3	KHGEFILLSEQNLLDCAQDFDNHGCGLPSHAFEYVK	Y N G <u>G</u>
UniRef90_V4RP05 UniRef90_Q1L8W8	ETGKLMSLSEQELVDCDTGSFDRGCTMDTAFEFIKNI	NNGL
UniRef90_B5SV85	ATGEL VSLSDQQL VDCDCDSGCNGGLMNNAFEYILE	S G G V
UniRef90_V4B0K1 UniRef90_UPI00045756A4	ATGNLETLSAQNLID <mark>C</mark> SGPEGNMG <mark>C</mark> NMDQSYKY <u>IEV</u>	N K G V
UniRef90_Q3Y6U7	ATGNL VSLSEQELIDO DESEGCYNGWHYQSFEWVVK	HGGI
UniRef90_A4IHZ5 UniRef90_S4RFQ7	RTGKLESLSVQNLLDCSQTYGNNGCGWVVSSFRYII	D N G I
UniRef90_E5SIJ0	KKGELVSLSEQELVDCDTLDQGCSGGYPSNAYKEIL	R L G G
UniRef90_R1DEY5 UniRef90_UPI000441E0DC	ATGKILVIŞILIS E E ELL VQCDTNGDHGCKGMDNAFE WILAE	G N P L
UniRef90_I1HPD1	ATGNLISMSEQQVLDCTGTNTCDGGHIDDALRYVAA	S R G L
UniRef90_B4G780	RTGKI LISILISEQQII VID <mark>C</mark> SGNQG <mark>C</mark> TGGSLRNTLKYLQS	TGGI
UniRef90_Q7XRA0 UniRef90_B5X7R9	ATGKLPLLSEQQLVDCAQDFNNHGCMPSQAFEYVKY	N N G L
UniRef90_K7IXW4 UniRef90_L8Y3A1	QTGLVVPLSEQQLVDCSTQTGNLGCSGRNTLRYLER	SKGL
UniRef90_L8Y3A1 UniRef90_H3DPJ7	NTGKL LINIL S F QNL VID CAWD F NN H G C G L P S Q A F E Y L K	N K G [] Y N K G

UniRef90_Q9VN93	90 100 110 120 LEEAEYPYKAKKNQCHFNRTLSHVQVAGFVDLPKGNETAM LESEATYPYEGKEGLCRYNPNNSSAKITRFVALPENEDVL
UniRef90_Q32PZ8 UniRef90_Q24E33 UniRef90_T1MD62	TTEEEYPYTAKDGK <mark>C</mark> QTKQGQ YKIKSFSTVPRGN <mark>C</mark> DK
UniRef90_M8AH84 UniRef90_S8EMM8	G G G S
UniRef90_Q6DJA7 UniRef90_D6WI58 UniRef90_E1ZPX7	DSDAEYPYVGQDEGCHYNPADKAATCKGYKEIPVGSEKAL NYNRDYPYLGRNGKCRYRSSKPHIAIRSYAALNNNNNEER DSEDDYSYWGYGLICQRRKEDRHVVTIDGFEDVPKNDGEA
UniRef90_E4WS64 UniRef90_UPI00042AC138	E E E Q D Y S Y H A E E G L C E F D P T K T A G T V R E V F N I T E T D E D Q L L E A E A T Y P Y E A K E G P C R Y H P E N S S A Y I V D F V S L P A N E D Y L
UniRef90_Q9FTI3 UniRef90_M4A9G2	LQTEAAYAYGGQQGA <mark>C</mark> FAAPNSAAAVGGARWARLYGDEGA
UniRef90_M0T700 UniRef90_V4NFQ4	LEEEKSYPYTGKRGH <mark>C</mark> KFDPNKVAVKVVNFTNIPLDEDQL
UniRef90_R4WDK4 UniRef90_H3ES25 UniRef90_O81930	LEGESDYPYTGRDDKCHFDASEVRVSLISSSVNISHNETDM DTESGYPYLGYQTNCRYSPSIIGGRDTGYMPVTSGDENAL
UniRef90_A0A022QDZ4 UniRef90_B7FSZ7	L D T E D A Y P Y T A K N G E C K Y S S E N V G V R V L D S V N I T M G A E D E C S E E E Y P Y L A K Q R T C M T N C T K V E G S G V K T F I D V P P G D E K A
UniRef90_V4P882 UniRef90_F0ZBK9	LEGESDYPYTGRDDKCHFDASEVRVSISSSVNISHNETDM DTESGYPYLGYQTNCRYSPSIIGGRDTGYMPVTSGDENAL VVREQDYSYTGRDGSCKFDKSKIAASVSNFSVVSVDEDQI LDTEDAYPYTAKNGECKYSSENVGVRVLDSVNITMGAEDE CSEEEYPYLAKQRTCMTNCTKVEGSGVKTFIDVPPGDEKA MKEADYPYTGRDHSTCKFDNSMIAAKVSNFSVVSADEDQI DTESSYPYTAKDGKTCKYNPANIGATLSSYSNVTSGSEPS
UniRef90_Q6QT16 UniRef90_J9IUB3 UniRef90_C5LKN2	QSDASYPYTGTAGTCKHDAS KGI TNVVSYTAL PANDENS
UniRef90_K7LUI2 UniRef90_U6IQ39	DTESSYPYTAKDGKTCKYNPANIGATLSSYSNVTSGSEPS DSEEDYPYKAVDGTCDPIRKNAKVVTIDGGYEDVPENDENS QSDASYPYTGTAGTCKHDAS KGITNVVSYTALPANDPTA DQESTYSYNGTDDVCQGKRSDGIPNVVSYTALPANDKTEQS GSEANYPYTAVDGTVDANKEASPAAQIKGYETVPANSEDA ESEKDYPYTAYDGSCKFNKSASITLVKKFVKVKEGDEGQL MEESAYPYTGQKGLCRKKQPGNIGVVKVNESGNETLL
UniRef90_F6YW01 UniRef90_J9HL09	MEESAYPYTGQKGLCRKKQPGNIGVVKAIHDLPSGNETLL ETEDQYPYEAVDDTCRASS AGVVKVDSFVDVTPNNVNE DTEESYPYDPQDDPCLFNKS NIGATFSGYKDVKGGELGL
UniRef90_UPI00035E056D UniRef90_O24545 UniRef90_D3TN89	ILIEEE ISYPYIGAQGE <mark>C</mark> KFDPNKIVIAIVIRIVISNFINII IPADENQII I
UniRef90_M1AN92 UniRef90_K1QYP7	DSAADYPYTESRGT <mark>C</mark> SYNKLNKKAVTI DGYQDV AQEEGA LETETDYKYRGHNEK <mark>C</mark> SMDKSKI RVKI NGSVSI SSNETEM
UniRef90_Q559Q3 UniRef90_C5KUS2	D S E K D Y P Y K S K H Y P C Q H N H T A I I A P H S I R Y V N V T S S K P A L
UniRef90_I3KDC2 UniRef90_UPI00046C1F95 UniRef90_UPI0003EAD254	MTEQDYPYTAFEGKCVYKPGKAAAFVNSVVNITAYNELEM QGEDTYPYKAQNGTCKFQPEKALAFVKDVVNLTLYDEPGM QSEATYPYTSLDNQPCSYDKRKSVVKLKDYKFLPAGDEQA
UniRef90_B5B2Z1 UniRef90_F4Q9B0	DTANSYPFYGKQSS <mark>CV</mark> YNEKYAAVKISGMVRISQGSESDI DTETSYPYLAVAQDKCQFKAS <u>NIG</u> AKISNWQ <u>ML</u> STNETQI
UniRef90_I1GUG7 UniRef90_C5X412	M E Q A A Y P Y T G A Q G T <mark>C</mark> R F D A N K <u>V A V R V T</u> S F T A <u>V P P D D E D Q <u>I</u> G H P P Y Y P A Y V A E K K K C R F N P R K H V V K I D G K R M M R D T T E A K</u>
UniRef90_P83443 UniRef90_I1I0J1 UniRef90_Q22A69	TTDENYPYRAYQGTCNANYFPNSA YITGYSYVRRNDESH ITSGERYAYGGFNGRCKVDKFDHGAAVGGFKAVPPNDEHQ ETESAYPYTAVDGSCKYNQSLGVVVDLEQGKTVADTENTM
UniRef90_C5KNC7 UniRef90_J9J3B4	DQESTYPYLAKNNACQEKRSDGLPAGEVIGFHMLDQIEQG FLFSDYPYKALDGKC SYKADKGHSKNKGHTNVKONSLPD
UniRef90_Q717S0 UniRef90_Q69G21	QTEESYPYKAKRSII <mark>C</mark> QMNGEYVTKVKT YHLLLNEQEII DSEGAYPYEMADGN <mark>C</mark> HYDPNOVAARIISGYVYLSGPDENMI
UniRef90_K4BE43 UniRef90_A0A044RVL0 UniRef90_B4F9F5	T S E N S Y P Y K G I D S S C N K N K L L N H M V K I S R Y E D I P S N S E W A A Q Q S K Y P Y V E I E Q R C K W K K K I G I V T V N D Y V M I P Q G D E L A L G T E D A Y P Y T A A Q A M C Q S V Q P V A A I S G Y Q D V P S G D E A A
UniRei90_B4F9F5 UniRef90_B4ESE4 UniRef90_H9K7B7	ETEKDYPYTGRNSA <mark>C</mark> KFDKS KILAAQVKNFSTVALDEDQL TELESDYPYDGRNEKCHEEKKNAKVOVVGAVNITSNETKM
UniRef90_M7YMX3 UniRef90_I3S1A0	L P E E A Y A Y T G Q Q G A C R S S S V S P N S V A S V G G A P R M H G D E G A A L E K E Y P Y T A K D E A S K F T A E N V A V R V L D S V N I T L G A E D E L D T E K S Y P Y Q A K E G P C A Y N P K A I G A K V K G Y V H I P T G D E D A L
UniRef90_X1YKP8 UniRef90_E0CPG7 UniRef90_J9FH61	VRGEDYPYTGTDGHC KFDKTKI AASVSNFSTVSI DEDQI AEETSYPYVAVTNTCALKKGSQSVGVKGGAVNVSLSEDDL LEAEATYPYKGKEGVCRYNPKHSKAEI TGFVSLPESEDI L
UniRef90_Q4V894 UniRef90_E1G207	CEAEATY PYKGKEGVCRYNPKHSKAEIT GFVSLPESEDIL LIEPEDQY PYKARNGT CHLIRSAII AVTII DDAVEI PRNETVM
UniRef90_I1HPD2 UniRef90_C5KZ14	LEPEDQYPYKARNGTCHLIRSALAVTI DDAVELPRNETVM QTEEDYEYNAEKGACRRDVTPNPATSVGHAEYMPDGNEFL VSESAYPYVAAAGTCKTTTTRDVHKQCLGWWPLKEGDLEE
UniRef90_S9Y6J3 UniRef90_K1RJ54 UniRef90_UPI000333ECEC	DSDASYPYKAMDGK <mark>C</mark> QYDSKNRAAT <mark>C</mark> SRYTELPFGSEDAL LDKEVSYPYVGKNGRCRFRPTEVGAN <mark>C</mark> QGIVHVPAGDELS IMGEDTYPYVGKDGRCRFKPQKALAFVKDVMNITLNDEDA
UniRef90_E0VWY5 UniRef90_Q5IH77	V N N E T D Y P Y E V R E G K C R F S S K K F T A K I K D Y V S V S Y F D E D A
UniRef90_I1NMW2 UniRef90_T1LK68	T S E E K Y P Y T G V Q G S C D V G K L F D H S A S V S G F A A V P P N D E R Q A T A A N Y P Y V A H E H D Y C L M P K Q K H V V T L D G F K E V P P N D E V A
UniRef90_UPI00042BB013 UniRef90_S4RX47 UniRef90_M4BUI3	II IM LESDYSYKGDMEQ <mark>C</mark> GESQAKIVIRAYII IN GSIVISII ISSDEDEM
UniRef90_W4RP05 UniRef90_Q1L8W8	TTEVDYPFVGNDYGA <mark>C</mark> KYENDAAAATISGFKFVPANNEQA DSSTEYPYFHKEGVCRYSVSGRAGYCTGERIVPRHNEAAI
UniRef90_B5SV85 UniRef90_V4B0K1	QREEDYPYTGRDRGPAID EANAASVSNFSVVSLDEDQI DTNLSYPYVGQNGKCHFTRSGVGATQKNFVDLPKGDELAL NSEKNYRYMAKDQDCKGIEKKVATCKDCGFIQKSERHLAA
UniRef90_UPI00045756A4 UniRef90_Q3Y6U7 UniRef90_A4IHZ5	NSEKNYRYMAKDQDCKGIJEKKVATCKDCGFI QKSERHLAA ASEADYPYKARDGKCKANEI QDKVTI DNYGVQI ESEAESS ELESNYPYQGKDGKCSYTPVKKASVCTSYRQLPYGDEATL STADTYGPYKGQNGFCHYNETERVARI DHYVNVTSGDEQA
UniRef90_S4RFQ7 UniRef90_E5SIJ0	STADTY GPYK GQN GFCHYNET ERVARI DHYVNVT SGD EQA
UniRef90_R1DEY5 UniRef90_UPI000441E0DC	CTESTYPYTGAGLTGTCKKACNGEVSLTSHKDVPSGDEDA ASSESYGPYKGONGYCHSNETHUVGKUSGYVNVTSGNTTA
UniRef90_I1HPD1 UniRef90_B4G780 UniRef90_O7YRA0	QPEAAYAYTGLQGACQSGFTPNSAASFGEPQTVTLQGDEG MRSDDYKYVSKKGKCQFVRDLSVVNITSWAILPVNNEQAI ASDLIYPYVGHKESCKKQLLGVHNATVRGVVTLPENREDL
UniRef90_Q7XRA0 UniRef90_B5X7R9 UniRef90_K7IXW4	MTEDDYPYTGHRESCKKQLLGVHNAIVRGVVILIPENREDL MTEDDYPYTGHDGSCNFKPELAAAFVKDVVNITSYDEKGM MTDATYPYTAHQGVCKFQRKLSVVNVTSWAILPARDERAL DSEDAYPYVGQDESCMYNPTGKAAKCRGYREIPVGNEKAL
UniRef90_L8Y3A1 UniRef90_H3DPJ7	DSEDAYPYVGQDES <mark>C</mark> MYNPTGKAAK <mark>C</mark> RGYREI PVGNEKAL LMTESGYPYTAFEGK <mark>C</mark> KYKPELAAAFVKNVVNI TAYDEKG

UniRef90_Q9VN93	130 140 150 160 QEWLLANGPISIGINANAMQFYRGGVSHPWKCSKKNLDHG
UniRef90_Q32PZ8 UniRef90_Q24E33 UniRef90_T1MD62	WE WILLIANGPI SI GI NANAMQFYRGGVSHPWKCSKKNLDHG MDAVATKGPVAAGI HVVHSSLRFYKKGI YHEPKCNNYVNH LAAAI AQQPVSVGVDATNFKFY TSGVFD NCKKKLNHG LEQAVAAQPVVVVGVDSSSTAFQRYGRGVFVGPCGTNLDHE LIKALIAHQPVSVAILEASGRHFQFYSGGVFDGPCGAQLDHG KHAVAFVRPVSVAILEASGRHFQFYSGGVFDGPCGSAQLDHG KHAVAFVRPVSVAILEASGRHFQFYSGGVYTSATCGSSPMDV KRAVANVGPVSVSIDASLPSFQFYKKGVYYDSSCNPVNHA VRRLVATKPVSVAILHVDSRTFHKYKSGVYNNPSCRGGLNH LKKALIAHQPVSL YHSGVVGDDACCQDLNHG TIALAYFNPVSVAFEVVDGFRFYKEGVYQSDTCKSDVNHA
UniRef90_M8AH84 UniRef90_S8EMM8 UniRef90_Q6DJA7	IL I K ALIA H QPVSVAI E ASGRHF QFYSGGVF DGPCGAQLDHG KHAVAFVRPVSVAF EVVKGFKSYKSGVYTSATCGSSPMDV KRAVANVGPVSVSI DASLIPSFQFYKKGVYYDSSCNPVINHA
LI-D-100 DOMICO	VRRLVATKPVSVALHVDSRTFHKYKSGVYNNPSCRGGLNH LKKALAHQPVSL YHSGVVGDDACCQDLNHG
UniRef90_L4W304 UniRef90_UPI00042AC138 UniRef90_Q9FTI3	L A VA N G P V S A A V D A S H D S F R F Y K G G I Y H E P N C S S V N H A L Q A L A A G Q P V V V V V E A S E P D F R H Y R S G V Y A G S C G R R L N H A
UniRef90_M4A9G2 UniRef90_M0T700 UniRef90_V4NFQ4	L A DAVATVPI TVAVDADHASFLFYSSGI YNEPSCNPNHLS LC AVLKQPI SVGI VGSSLDFQLYAGGI YDGDCSSNIDHA TANI VOHGPI AVGI NAVVEMOTYI GGVSCPI I CSKKKI NHG
UniRef90_R4WDK4 UniRef90_H3ES25	AKWL VANGPISIGLNANAMQLYLGGVSHPWKCSPEDMDHG KLAVATLGPISVAFDASHSSFQYYQSGVYYEPSCSSTVLD
UniRef90_O81930 UniRef90_A0A022QDZ4 UniRef90_B7FSZ7	LKHAVAFARPVSVAFEVVSGFRAYKSGVJTSTTCGNSPMD LLSAIAMQPISVAIQASQFVFQFYKNGVLTDDSCGSIDHG
UniRef90_V4P882 UniRef90_F0ZBK9 UniRef90_Q6QT16	A A NIL VQ H G P L A I A I N A L WMQ T Y I G G V S C P Y V C S K S Q D H G L E S A A N I G P V S V A I D A S H N S F Q L Y S S G I Y Y E P A C S T T S L D I K K A V A Y Q P V S V A I F A G G R F F Q I Y Q S G I F T G R C G T A I D H G
UniRef90_J9IUB3 UniRef90_C5LKN2	L IN A V A K Q P V S I A I Y A S S S A L L A Y K S G I V D T K C G T N V N H A L M K A L A D A P V S V A M Y A A D P D F R F Y K S G V Y S S A T C N G K L D H
UniRef90_K7LUI2 UniRef90_U6IQ39 UniRef90_F6YW01	KLSVGQIGPVSVII DVGGSAFQFNSSGVFIGQUGIQEDAG MNTVGTIGPVSVSI NASSEKFHQFKSGVYYNPDCNKVNHA
UniRef90_J9HL09 UniRef90_UPI00035E056D UniRef90_O24545	LKAALDKGPVSVAI EADQMVFQFYSGGVINDS <mark>C</mark> GTTLDHG KKAVADIGPISVAI DASSSQFQFYKNGVYYDST <mark>C</mark> SSSMVG AAYLVNHGPLALAVNAVFMQTYVGGVS <mark>CPLIC</mark> SKRRINHG
UniRef90_D3TN89 UniRef90_M1AN92	AQWLIANGPISIGINANAMQFYRGGVSHPPHCSRKNLDHG LLCAVARQPVSVGIDGKGLDFQLYAGGLYDGECSSNPDDL
UniRef90_K1QYP7 UniRef90_Q559Q3 UniRef90_C5KUS2	ME ALALSGPVSVALDAGSSAFQLYGGGVLNSSCNTTLDHG
UniRef90_I3KDC2 UniRef90_UPI00046C1F95 UniRef90_UPI0003EAD254	V D A V G T H N P V S F A F E V T S D F M S Y H Q G V Y T S T E C H N T T D K V V E A V G K H N P V S F A F E V T G D F V S Y S K G I Y S N P T C D K T P D K V I A D A V A T I P I T V A V D A D N P S F M F Y N S V W R R K S S D F P
UniRef90_B5B2Z1 UniRef90_F4Q9B0	LGAVANVGPVAVALDGSSNAFRFYSSGVYDSSRCSSSKLNAAYLALNGPVSIAADAAEWQFY IGGVFDLPCGKALDHG
UniRef90_I1GUG7 UniRef90_C5X412 UniRef90_P83443	
UniRef90_I1I0J1 UniRef90_Q22A69 UniRef90_C5KNC7	LAMAVARQPVTAYVDASTWEFQFYSGGIFRGPCSGDPARV GVALDNIGPLSVAINANNLQFYAGGISNPLICNPNGLNHG
UniRef90_J9J3B4 UniRef90_Q717S0	LKAAIAQGPVSVAIEADTMVFQFYNGGINSKSCGTNLDHG ARAVSAKGPVAVALDASQLSFYDQGLVDEKCKCSKKREDL
UniRef90_Q69G21 UniRef90_K4BE43 UniRef90_A0A044RVL0	
UniRef90_B4F9F5 UniRef90_B4ESE4 UniRef90_H9K7B7	A A NEVEN G PLAI GINA NET MOTY I GGVS POTE CONSTRUCTION OF THE DH
UniRef90_M7YMX3 UniRef90_I3S1A0	LQELAARQPVAVPVEADSDFQHYMRGVYTGSSSCGQNLNHKHAVAFARPVSVAFQVVDGFRLYKEGVYTSDTCGNTPMDVMKAVATVGPISIVVDSRHHTFKHYADGVYYDSQCTNLTHAAANLVKNGPLAVGINAIFMQSY AGGVSCPFICSTSLNHGKQAIYSHGPVSIAFQVASDFRDYRAGVYVCKNGPQDVNHAMEAVATIGPISVAVDASFNSFGFYKKGLYDEPNCSNNNHS
UniRef90_X1YKP8 UniRef90_E0CPG7 UniRef90_J9FH61	A A N L V K N G P L A V G L N A L F M Q S Y A G G V S C P F L C S T S L N H G K Q A I Y S H G P V S I A F Q V A S D F R D Y R A G V Y V C K N G P Q D V N H A
UniRef90_Q4V894 UniRef90_E1G207 UniRef90_I1HPD2	MEAVATIGPISVAVDASFNSFGFYKKGLYDEPNCSNNNHS KAWIVQRGPLSVGIDAKLLAYYKSGLLHPSRSRCPPSGID
UniRef90_C5KZ14 UniRef90_S9Y6J3	KAWI VQRGPLSVGI DAKLLAYYKSGI LHPSRSRCPPSGI D LQKLVARQPVVVAVEAYGTDFKNYGGGVFTGSCGQNLDHF LLEGVAQQPVSAI LNAFPADFKQYKGGI YKSDACDKSKSS KEAVANKGPVSVAI DASHSSFFFYKSGVYYDPSCTQVNHG LQKAVGSI PI VVSLDASKRSFKQYRNGVYDDKACSKI THY MVEAVAL CREVSVSA FEVTEDFMSYRSGI YSSTSCHKTPDV
UniRef90_K1RJ54 UniRef90_UPI000333ECEC UniRef90_E0VWY5	MVE AVALYNPVSFAFEVTEDFMSYRSGIYSSTSCHKTPDV LKAAVATGPVSVSMDASSPAFKKYKGGVYTDDKCSSMKLN
UniRef90_Q5IH77 UniRef90_I1NMW2 UniRef90_T1LK68	LKAAVATGPVSVSMDASSPAFKKYKGGVYTDDKCSSMKLN AAYLAEHGPLSTLLNAVALQHYQSGVPTFDECPDTELNHA LALAVARQPVTVYIDASAQEFQFYKGGVYKGPCNPGSVNH LMOAVAAQPVLVVI
UniRef90_UPI00042BB013 UniRef90_S4RX47	LMQAVAAQPVIVA VDPKAFQRYGGGVFVGPCGTNRTHTNKAVGGSRAVE GSSPFLWPSGVYDDPRCTDDVNHAAWLVKHGPISIALNALGMQFYKHGIAHPWKCWSWELNHA
UniRef90_M4BUI3 UniRef90_V4RP05 UniRef90_Q1L8W8	LMVAVGTVGPVSLAFQVVSDFRFYKSGVYESSECHSGEKD LMQVVADQPV QSAVANLGPVSVGINAKLLSFHRYRSGLYNDPKCSSINHA
UniRef90_B5SV85 UniRef90_V4B0K1 UniRef90_UPl00045756A4	SANLVKNGPLAIGINAVFMQTYLG GVSCPYLCGKNLDHG QKAVAEIGPIAVAIDAQAQGFQFYKSGVYVNKDCSPAILC AVASIGPLSICVDGSHKSFOFY KKGIVYFKNCIKPINHA
UniRef90_Q3Y6U7 UniRef90_Q4HPZ5	QSAVANIGPVSVGINAKLLSFHRYRSGIYNDPKCSSINHA SANLVKNGPLAIGINAVFMQTYIG GVSCPYICGKNLDHG QKAVAEIGPIAVAIDAQAQGFQFYKSGVYVNKDCSPAILC AVASIGPISICVDGSHKSFQFY KKGIYYEKNCLKPINHA LQSFVLEQPISVSIDA KDFHFYSGGIYDGGNCSSPYGI KQVVGLMGPVSVAIDASRKTFRMYKNGVYYDPNCSSSTPD LRLAIKNGPVSVSIDAGHLSFAFYSNGVYYPPKCHDLNHA AAYIRFNGPVAVGINAFAMMFYRHGIAHPWRCSPDAIDHG
UniRef90_R1DEY5	A A Y L RENGPVS VSI DAGHLIS FA FYSNGVYYEPK CHDLINHA A A Y L RENGPVA VGI NA FA MMFYRHGLA HPWR CSPDA L DHG L RA A V A K Q P V S V A I E A D K S A F Q L Y Q S G V I D S A S C G K E L D H L K T A I Y K H P V S V S I D A S H R T F S FY S N G V Y Y E P K C K N K R G E
UniRef90_UPI000441E0DC UniRef90_I1HPD1 UniRef90_B4G780	LKTAIIYKHPVSVSIIDASHRTFSFYSNGVYYEPKCKNKRGE RLQGLVAGQPIAVSVEASDDFRHYMSGVFTSSCGQRLNHA QAAVAHIIGPIAVSINATPRTFOILYSDGIIYDDASCTSVINHA
UniRef90_Q7XRA0 UniRef90_B5X7R9	RLQGLVAGQPIAVSVEASDDFRHYMSGVFTSSCGQRLNHAQAAVAHIGPIAVSINATPRTFQLYMSGVYTTSSCGQRLNHA QAAVAHIGPIAVSINATPRTFQLYSDGIYDDASCTSVNHA IMAAVARQPVAVVFDAGDPLFQNYRGGVYKGGCSTNVNHA VDAVARLNPVSFGYEVTDDFLHYKDGVYSSTTCKNNVNHA EAAVATIGPIAASINAGPRTFQLYHSGIYDDPTCSSVNHA KRAVARVGPVSVALASLTSFQFYSKGVYYDDRCSSDNVN
UniRef90_K7IXW4 UniRef90_L8Y3A1 UniRef90_H3DPJ7	E A A V A T I G P I A A S I N A G P R T F Q L Y H S G I Y D D P T C S S V N H A K R A V A R V G P V S V A I D A S L T S F Q F Y S K G V Y Y D E N C S S D N V N ME D A V A T H N P V S F A F E V T D D F M H Y K G G V Y S S S R C H K V N H A

JAMESED, COVENSO J. L. Y. K. Y. Y. K. Y. Y. K. Y. Y. Y. K. Y. K. Y. K. Y. Y. Y. K. Y. K. Y. K. Y. Y. Y. Y. K. Y. K. Y. Y. Y. Y. K. Y. K. Y. Y. Y. Y. Y. K. Y. K. Y.		170 180 190 200
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James D. Brywish J. J. J. J. E. R. S. W. D. Y. W. L. W. N. S. W. G. A. G. W. G. D. K. G. Y. W. M. A. R. N. R. R. R. A. G. S. A. C. J. W. J. W. J. W. N. S. W. G. D. K. G. Y. W. M. A. R. N. R. R. R. R. A. G. S. A. C. J. W. J	UniRef90_S8EMM8	NHAIVENGI PYWLIKNSWGGDWGDEGYFKI EMGKN MC
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JARREND DIPOMOTACACTOR JARREND MOTTOD JARREND MOTTOD V. L. V. V. V. S. E. S. V. W. L. K. N. S. W. G. D. W. W. C. L. N. S. W. G. T. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. W. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. W. L. W. S. W. G. D. W. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. W. L. K. N. S. W. G. D. W. G. D. W. W. L. K. N. S. W. G. D. W. W. G. D. W. W. L. K. N. S. W. G. D. W. W. G. D. W. W. L. K. N. S. W. G. D. W. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S. W. G. D. W. W. L. K. N. S	UniRef90_E1ZPX7	V L A V G Y G T P H Y V I K N S W G E G W G E Q G F F R L A A K S S E A S G A C
Junkagon Moltzon William Wil		V L A V G Y G M C Y F II V K N S W G A E W G D E G F F K II K R G E N M C C
Junkagon Moltzon William Wil	UniRef90_Q9FTI3	VTVVDGGGEYWLVKNQWGTWWGEGGYMRVARG GAAGGNC
Junkes D, Vankford Junkes	UniRef90_M4A9G2	HYGSEEGQDYWI VKNSWGTSWGEGGYMRMARNGGN T <mark>C</mark>
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JURINGERO DESCRIPTION VILLA V G G G K P Y W L IK N S W G D W G D B G C Y Y K M E M G S N N F G M C M M C M M C M C M C M C M C M C M	UniRef90_R4WDK4	
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JARRESO GEOTTE V.A. A.V. IG.Y. G. ID. V. WILL V. IR. N. S. W.G. S. S. W.G. E. N. G.Y. I. R. M. E. R. N. W. K. G. G. G. C. J. M. RESON CALLED V. Y. I. G. Y. D. Y. I. I. R. S. W. G. S. S. W. G. E. N. G. Y. I. R. M. E. R. N. W. K. G. G. G. C. J. M. RESON CALLED V. Y. I. G. Y. D. Y. I. I. I. R. S. W. G. S. S. W. G. E. G. Y. I. R. M. G. R. G. Y. I. R. G. G. Y. I. R. M. G. R. G. Y. I. R. M. G. G. Y. I. R. M. R. G. G. Y. I. R. M. G. G. G. G. Y. I. R. M. G. G. G. G. Y. I. R. M. G. G. G. Y. I. R. M. G. G. G. Y. I. R. M. G. G. G. G. G. Y. I. R. M. G. G. G. G. Y. I.	UniRef90_A0A022QDZ4	IVIN HIVIENGIVIP Y WILLIK N.S. W.G.A.D. W.G.D.S.G.Y.F.K.M.F.M.G.K.N. M.C.
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JARRESO GEOTTE VIA AVIG Y G I D Y WI V K N S WG S S WG E N GY I R M E R N W K T G M E C WARREST STANDARD STAND	UniRef90_F0ZBK9	HGVLVVGYNYWIVKNSWGTSWGIEGYILMSKDRNNN C
Jinkergo Krijuiz		IVIA AIVIGYGII IDYWII VIRNSWGSSWGENGYII IRMERNIVIKTKTGKC
Jinkergo Krijuiz	UniRef90_C5LKN2	GVVTENGSDYFIIIRNSWGSSWGQAGYFYLKRGV SGYGEC
JUNESSO J-STAND J-STAN	UniRef90_K7LUI2	WTAVGYGTQYWI VKNSWGTQWGEEGYIRMQRGTDAQEGLC
Jinkel90	UniRef90_U6IQ39 UniRef90_F6YW01	IVIVVIGYGMI)YWIIVKNSWGIVIQEGENGYIIKMARNRGNN C
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Jinkel90		V L L V G Y N K P Y W T I K N S W G E Q W G E K G Y Y K L C R G H G M C
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JAIRGE90 QS5903 JAIRGE90 JSKUS2 JAIRGE90 JSKUS		SHAIVEGGIVDYWIIKNSWGKFWGMEGYAYIKRNTSLIPYGII C VLIVIGYGKPYWIIKNSWGPDWGFKGYYIVIYRG AGIVIC
JAIRGE90 UP100045C1P95 JAIRGE90 UP100045C1P95 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD24 JAIRGE90 UP100035AD25 JAIRGE90 UP100034AD20 JAIRGE90 UP100034AD	UniRef90_Q559Q3	YGTDFNG V DYF I MKNSWGKSWGTNGFFK V KRG V KGK <mark>C</mark>
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Jinker90 B58221 Jinker90 Jink	UniRef90_UPI00046C1F95	N H A V E N G T P Y W V K N S W G P L W G M D G Y F L I E R G K N M C
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Jinker90_16SV412	UniRef90_B3B2Z1	ILIVIGYDKPYWWVKNSWGASWGEQGYILIKIVLIRG AGE <mark>C</mark>
Jinkel90	UniRef90_I1GUG7	V L L V G Y G R P Y W I I K N S W G K E W G E G G Y Y R L C R G A R N R N V C
Jinke90		I TI I GYGRDYWI VRNSWGSSWGQGGYVRI RMKKNVRSKAGLU
Jinker90_C5KNC7 Jinker90_Q717S0 Jinker90_Q717S	UniRef90_I1I0J1	NHAVEFGDKFWLAKNSWSDDWGDQGYLLLAKDVSSPNGTC
Jinkef90_069621		GVVTENGEDYEVIRNSWGSSWGODGYEYIKRGV SGYGEC
Jinkef90	UniRef90_J9J3B4	VLÁVGYGKPYYI VKNSWGPSWGEQGYLRIA QVDGAGLC
Jinkefgo Jankefgo		N H G V E N G V D Y WI V K N S W G A D W G E K G Y F R L K K D V K A C A V L L E N G O D Y W L V K N S W G D G W G L D G Y F K L A R N A N N H
JniRef90	UniRef90_K4BE43	VIT AIVIG Y G T K Y WIL VIK N
Jinkef90 B4ESE4		V L V V G Y G R H Y WI V K N S W G T N W G D S G Y F Y II A R N Q R N M C
JniRef90 M7YMX3	UniRef90_B4ESE4	V F LV GYGKPYW II KNSWGENWGESGYYK I CRG PH V KNKC
JniRef90_ISS1A0	UniRef90_H9K7B7	
JniRef90_COCPG7	UniRef90_I3S1A0	NHGVENNVPYWIIKNSWGSTWGDHGYFKMELGKN MC
JniRef90_J9FH61	UniRef90_X1YKP8	ML V V G Y G T D F WL V K N S W G T S W G L K G Y L K M A R N R N N S C
Juire 190	UniRef90_J9FH61	V LAVGFGTDYWLLKNSWGAVWGDQGYFKMERGVN MC
JniRef90	UniRef90_Q4V894	V L V V G Y G F E Y WL I K N S W G R K W G L R G Y M K I P K D Q N N F C
JniRef90	UniRef90_E1G207 UniRef90_I1HPD2	FTVVGYGFMYWLVKNQWGTSWGESGYMRIARGSSARN C
JniRef90_UPl000333ECEC	UniRef90_C5KZ14	<u>HSVLITGYKYWEF</u> KNSWGTDWGMQGYGR <u>LL</u> RGKGGK GE <mark>C</mark>
JniRef90_UP1000333ECEC	UniRef90_K1RJ54	ALTVGYGKKYWLIKNSWGTSWGMDGYMMLARNQDN IC
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JniRef90_11NMW2	UniRef90_E0VWY5 UniRef90_Q5IH77	V L T V G Y D M P Y WII I K N S W G T D W G E K G Y F R L F R G D C T C
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UniRef90_T0PJX3	VDWTTST <mark>C</mark> VNPIKNQGK <mark>C</mark> GS <mark>C</mark> WAFSATGAVESAH <mark>C</mark> I
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UniRef90_T0QAH7	P S S F D WR D R G A V T G V K M Q G A C G S C WA F S T T G A V E G A N F L V D WT T T R C M P A V R D Q G Q C G S C WA I S A T G A A E M A H C L S V D WR K K G Y V T P V Y Y Q G T C G S C W T F S T V V S I E G A A A R P T A V D WR T E G V A D I K N Q G S C G S C W T F S T V V S I E G A A A R E Q V D WR Q R G A V T P V K D Q K Q C G S C W A F S A T G A I E G Q H F L E Q V D WR Q R G A V T G V K D Q G A C G D C W A F S A V C A V E G M N Q I I P S S L D WR D K D A V T G V K D Q G A C G S C W A F S A V G A V E F G H C L S V D W S A T K C M S P V R N Q G Q C G S C W A F S A V A A V E F G H C L P I N F D W R Q Y N A V T P V R V Q G N C G S C W A F S T L A G I E S Q Y S I L P A E F D W R F K G A V S R V K D Q G Q C G S C W A F A S V A A V E S L E S A Y C L S V D W S T T P C G S P V Q S Q G C G S C W A F A S V T A V E S L E S A Y C L S V D W S T T P C G S P V Q S Q G C G S C W A F A S V T A V E G I N Q I
UniRef90_K4FSW4 UniRef90_F0YCU2	PTAIVID WRKK GIJVII FIVIT Y QGI UGSUY GFAAI GSIL EAMILIFK PTAIVID WRTE GIV VIA DII KNQGS CGS CWTFSTIV VISII EGAAAR
UniRef90_Q5PXQ0	LPEKVDWRTKGAVTPVKDQKQCGSCWAFSTTGSLEGQHFL
UniRef90_K3ZJ46 UniRef90_A9NW12	E Q V D WK Q K G A V I G G C G D C WA F S A V C A V E G M N Q P S S L D WR D K D A V T G V K D O G A C G D C WA F S A T G A I F G N K I
UniRef90_T0Q4K9	VDWTTNK <mark>C</mark> MSPVRNQGQ <mark>C</mark> GS <mark>C</mark> WTFSSVGAVEF <u>G</u> HCL
UniRef90_W2G230 UniRef90_Q4PR56	SIVID WS A T K C M S PIVIQ S Q G Q C G S C WA F A SIVIA A VIE S L Q C I I
UniRef90_Q4FR36	LPAEFDWRFKGAVSRVKDQGQCGSCWTFSTLGAIIEGAHFII
UniRef90_K3WB02	D WT T S G C V A P V K N Q G Q C G S C WA F A A V A S L E S A Y C L
UniRef90_M4BGD1 UniRef90_UPI00046E241D	
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UniRef90_A2HKA5 UniRef90_A2DLD4	A S V D W R T K G I V N E I K D Q G Q C G S C W A F S A I Q A C E S R W A Q T F D W R T K G I I N P I R N Q G Q C G I C W A F S T I C C V F A R W A Q
UniRef90_Q0IL45	VP DEWD WRNS QKVT SVK QQGVCGSCWAFASVANI ESQYAD
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UniRef90_W5H3J5	M E GIL V IK IL I
UniRef90_P35591 UniRef90_Q7KWP5	SVD WR D K G A V T P V K N Q G L C G S C WA F S A I G N E G Q W A A D WR K K G A V P S V K S Q L G G C G S W P L T A V G A T E S A H F L
UniRef90_Q7KWP5	E DED WRKENGVIT PVK D QGNCGSCWAFA AVGSVESELYE
UniRef90_V4AB89	D WR K K G A V P S V K S Q G G C G S WP T A V G A T E S A H F L E D L D WR K L N G V T P V K D Q G N C G S C WA F A A V G S V E S L Y L I I P E N L D WR L M G A V T P V K D Q G V C G S C WS F G T T G T I E S S L A I D WR E F N A V T P V K D Q K N C G A C WA F S T V G V V E S Q Y A I V P T E I D WR E Q G I V N K I K N Q G A C G S C WA F S A I Q V I E S Q V A K
UniRef90_A5K4G8 UniRef90_A2E346	D WR E F N A V T P V K D Q K N C G A C WA F S T V G V V E S Q Y A L VP T E L D WR E Q G I V N K L K N Q G A C G S C WA F S A I Q V I E S Q V A K
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UniRef90_W5 UniRef90_H0\	BJ31 VRR8	N T G K L V P L S K T G V L T P L S		. V D C	DQYN	IGGCN	R G F R R A	F H W V H Q N G G L Y E W I K K H G G I
UniRef90_R0F		A F G K G I S L S	FOOL	VDC	AGTF	NNFG	CHPSQA	F F Y II K Y N G G II
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UniRef90_V9k UniRef90_UPI		HGLPLTSLS KTGKLVSLS	EQNL		SRPE	GNQG	C N M D Q A	AFKYL ANGG VFKYL RKYGI FQYVQDNGGL
UniRef90_A2D	OU12	T Y S NIL IQ KIL IS	EUNIL	V II) (. Y (- (. N	(1 (1	A Y I) Y H () N (5 K F
UniRef90_E9L UniRef90_J3J		A G H G L VS L S A G N A L T S L S K H K Q L V S F S	FOMI		DIKU	SGCD	G G L M L Q	A F E WH M Y G V A F E WH H N G T V
UniRef90_D2\	/LP8	KHKQLVSFS	EQQIL	. VID C	DNNC	GCNG	GILIQWSA	Y Q Y IL IM K A G G IV
UniRef90_F9V UniRef90_L8F		A G H E L T S L S A A G Q L T S L S	E Q M L E Q M L	VSC	DTND	F G C N G	G G F S D P	A F K WI V K G N V Y S WI L N N G G G
UniRef90_Q2	MEV3	AKGN <u>A V S</u> L S	EQNU		SGNH	I G C H G	GNMYDA	F I I Y I I A N F G I V I
UniRef90_J3L UniRef90_I7L		A T G K L E V L S K T G K L E S L S	E Q Q \(\bar{\bar{\bar{\bar{\bar{\bar{\bar{		DHEC	D G C N	G G L M T T .	AFSYLMKSGG FR <mark>C</mark> IQNNGGI
UniRef90_A0A	A024GD25	KEKKIL VINII IS	EQNL	. I ID C	SWNF	GNHG	GFDYQS	Y N WILLIS S G GILL
UniRef90_M32 UniRef90_D6\	ZDZ6 N755	KTGSLQVLS QTEKLVPLS	QQML	VDC	SGNN	IG <mark>C</mark> DG	G E E WRA	Y E WI M K H G G I L R Y L E K A G G L
UniRef90_A0A	\024TF17	DTGKILLIDILIS	: E Q Q \	/ VIS C	SNWN	ING <mark>C</mark> L	G GIV P WY	ALDFMFSEGG
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UniRef90_E10	GHF0	RTGKILLINILIS	PQNI	V D C	TQEF	GNFG	C G Y MIVIP	A F Y Y A T K V G I
UniRef90_UPI UniRef90_A0A	10002B49DF3 1059C7C5	KTNELVSLS KTGVLLSLS	E Q E \	/ V D C	DYKG	G <mark>C</mark> R G	G D Y N S A <mark>C</mark> E <u>E</u> D D A	F E F T M E N G G I Y N Y I V Q N K G I
UniRef90_K7>	KJ06	K S G K L E R <u>Y</u> S	EQNL		V A C	YGCN	G G L M D A C G S L Q A	SYEYRONGHL
UniRef90_G6I UniRef90_A20	DFV4 3D33	$R \overset{H}{H} G D \overset{W}{W} R \overset{E}{L} \overset{S}{S}$ $K \overset{H}{H} G T \overset{L}{L} \overset{Y}{S} \overset{L}{L} \overset{S}{S}$						
UniRef90_T0F	PJX3	A T G S IL L ID IL IS	E Q Q	/	FTKN	1066	OGGDFF	N WILLA G T N G GILL
UniRef90_A8> UniRef90_J4C		KKGTLWSLS HKDVVYSLS	EQEL		D R D S	Y G C N F G C N	GCLPSL QGGDEE GGFMDK GGFPES	A L S WI L G N G L A L N Y V R R Y G I
UniRef90_UPI	1000234EC3E	KTGS LI P L S	EQQL	į Do	DTSS	PNKG	C G S V A K	ALSWILGNGL ALNYVRRYGL AFLYLSSTGL GYQYAMSKGL
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UniRef90_W5	L7R8	RIGRI VIPII IS	: P Q N I	VIDC	SGNH	GCRG	GYILISKS	F II IY IV I IR N K GII I
UniRef90_UPI UniRef90_B60		H F K K L Y K L S K Y D R L I D L S	E Q G I	/ L D C	SGLK	DA <mark>C</mark> A	GGYPWD GIIHTA	A F G T I Y T V G V Y E E I M R M G G V
UniRef90_D0N	MR71	QQKK L YN <u>M</u> S	QQNL	L D C	SWDY	GCNG	GLDYQA	Y
UniRef90_L9L UniRef90_M5\	.6G4 WCG8	T T G K L L S L N Y G I N T S L S	FOOI	I D C	SGNA	DGCK	GGFTVA	F E Y L L Y N K G L A F D Y V L R N G G
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UniRef90_I1S UniRef90_UPI	RQ5 1000350EBD0	KNGTLLSLS KKGTLLSLS	EQEL		DKVD) Q A C R) K A C M	GGLPSN	AYEAIIEKLGG AYSAIKSLGG
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UniRef90_H3E UniRef90_Q94		A	E Q N L E Q E L	. V D C	DRRS	GNHG HG <mark>C</mark> K	GGYQTT	F E Y <mark>V K Q N H</mark> G I S L Q Y V V D N G V
UniRef90_M7/	ARJ1	K T G N L V S L S	A Q N L	. VID C	T S M <u>Y</u>	' G N Q G	C F M T Q A	F Q Y II I ID N G G II I
UniRef90_I0Y UniRef90_B0>	PQ4 (CU8	ATGK <mark>PL</mark> SLS KTKKLMRFS	E Q Q L Q Q A L	. I D C	D K D L S W G Y	G N N G	G	V D Y
UniRef90_I1N	MS4	R T G Q L T P L S	EQEL	. VID C	VDGG	GDSD	G <mark>C</mark> G G G A G G <u>N</u> T <mark>C</mark> N	FQILVVIDKGGIII
UniRef90_U6. UniRef90_B8E	3609	A T G N L L D L S	EQQL	. V D C	DHCD	SGCG	GGLMTN	AYAYLMSSGG
UniRef90_T00 UniRef90_K4F	DAH7	ATGKII I NII IA	$F \cap O I$	VSC	· ANDG	YGCN	GGWPRO	A I I D Y I I A T T G I I I
UniRef90_F0Y	CU2	K T G K L V T L S	EQNL		DECC	M G C S	GGLMDN	A F D Y I I K N G I
UniRef90_Q5F	PXQ0	K D G K L V S L S	EQNL	. V D C	SGKF	GNMG	C M M D Q A	FRYIKENKGI
UniRef90_K3Z UniRef90_A9N	NW12	TT GSL VSLS	EQEL		DTSY	NSGC	DGMDYA	F Q WV I VN G GI
UniRef90_T00 UniRef90_W2	Q4K9 G230	MTGQLVDFS KNGOSNKVS	EQQL	V S C	ASNA	GNG <mark>C</mark>	Q G W P D K	ALDYI AQTGL
UniRef90_Q4F	PR56	KYNKQIISLIS	Ďããďi.	Ž Ž Š	DISN	MGCA	ĞĞLLH	A Y K F V M E N G I I K N G I I K N G I I K N G I I K N G I I K N G I I K N G I I K N G I I K N G I I K N G I I K N G I I K N G I I K N G I I K N G I I K N G I I K N G G I I K I K N G G I I K I K I K I K I K I K I K I K I
UniRef90_Q01 UniRef90_K3V	10F9 VB02	SIGKILVEILS KGNPLITIIS			DSFS	U G C N	GGEPSN GGFPGD	AMEYIVEHGG ALNYVOONGI
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UniRef90_UPI UniRef90_K7k	เบ∪046E241D _ (XS2	QIGELISILS ITSELVIPIIS	EQF	. L D <mark>(</mark> . V D F	SSY VKSF	GNKG G <mark>C</mark> YG	C F M T S S D Y V E D A	F Q Y Q Q N G G F K F T K K G R
UniRef90_A2H	HKA5	A G H K L L S F S	EQNI	. V D C	CGGG	YGCD	G G W S LA	FVTHTQDGYF
UniRef90_A2D UniRef90_Q0I	JLD4 L45	AYNILLQLS RHDRLLDLS	EQMI	. V D C	D Q D C	G C M G	GYADDA GLM <mark>H</mark> LA	A A F V I E N Y E G F Q E I L Q M G G I
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UniRef90_M8/ UniRef90_E4X	43P6 (561	5	EQQL	. V D C	A G A F	IG <mark>C</mark> GN NNHG	S W M D K A C N P S Q A	F E Y I A A A P G I
UniRef90_E90	30H3	KAKVTTVLS	EQH	VDC	DITN	IGG <mark>C</mark> N	G G W Y V T	AWTYLKKAĞĞ
UniRef90_Q50 UniRef90_V9L	JIU <i>1</i> _SX8	SYGSILVII LIS KFNRLVINLS	EQNI	ט ע ע		GNHG G <mark>C</mark> MG	G L L H T A	L L Y V I E N D G V Y E Q M M S M G G V
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UniRef90_K7L	_642	VT Ğ ÑE VİŞEĞ	EQE	ŢĎ	YKAN	ISCNG	GYHFHA	F É WV I E N R G I
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UniRef90 Q4l	JCF2	YRDETVDLS	ĒQĔL	. V D C	DKFS	NGCY	TGSPFT	A M E Y V C S N G L
UniRef90_W5 UniRef90_P35	H3J5 5591	S	EQEL	. V D C	DNID	GCEG EGCN	G L M D N A G G L M D O	F E F II I D N G G L A M N WI H N G S V
UniRef90_Q7h	KWP5	ĀNPKDISLS	МОЙГ	ijĎ	S N L N	I K Q Č Y	QĞŢÜNĔ	A F Q Y I I N G G I
UniRef90_Q9N UniRef90_V4A	NHY4 AB89	K K G Q A L D L S K S G K A T R I S	EQEL	V N C	EENS	N G C E	GGLPNK GFDFRS	ALEYIKAKGII YDYIMKHGGII
UniRef90_A5k	(4G8	RKKELVSLS	ĒQE	ŊŸ D C	SKNY	Ğ <mark>Ç</mark> DĞ	ĞNÜPÜÄ	FEDLÜDÜĞĞÜ
UniRef90_A2E	E346	N Q K Q L Y D L S	EQNL	. L D C	VIT S C	FGCG	GGWSPG.	AILIEYKQNSKF

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V D A A A L L V M

	400
UniRef90_B0EIS2	130 140 150 160 LT S A L E Q G P V A V C I D A G K A S F Q L Y K S G V Y D E P K C S K T V N H
UniRef90_W5BJ31	MKHAVAKOPVAAAI ELGND LOEYKSGI YSGPCGTRI OHA
UniRef90_H0YRR8 UniRef90_R0HK07	KTAITYKHGPVAVSIDASHKSFSFYSNGVYYEPKCDNTPGS KHAVGLVRPVSIAFEVVHEFRFYKKGVFTSTTCGNTPMDV
UniRef90 F4PRJ8	LQSQTVKGPVSVALDASHQSFQLYDSGVYYEPACSSTNHG
UniRef90_V9KYG7	AKAVATI GPI SVLVT SDTPDFRHYRKGI LFDTGCTSTDHG
UniRef90_UPI000351181F UniRef90_A2DU12	LQSQTVKGPVSVAIDASHQSFQLYDSGVYYEPACSSTNHGAKAVATIGPISVLVTSDTPDFRHYRKGILFDTGCTSTDHGLMKAVAVGPVSVAIDAGHSSFQFYQSGIYYEPDCSSEDLDAVKIATYGPAAVAIDASAWSFQVYSSGIYDEPSCSSYNHG
UniRef90_AZD012 UniRef90_E9LZ04	A A WILLA E N G PILLALLIA WILLA S S E M S Y U S GIVILLIS CAGDALLIN H G
UniRef90_J3JZZ3	
UniRef90_D2VLP8 UniRef90_F9WCL8	A N WL A E N G P I A V A L N A D F L Q N Y N N G L A D P A W C D P T Q L D H G
UniRef90_L8H305	L L T L A S R G P V S V G I N A S P R S F T Y Y R S G I D S C T A A G M N H A
UniRef90_Q2MEV3	A T WL A A N G P L A V A V D A S S WM F Y T G G V L T S C V S N E L D H G A N WL A E N G P I A V A L N A D F L Q N Y N N G I A D P A W C D P T Q L D H G A E WL A K N G P V A I A V D A T S F Q S Y T G G V L T S C I S K E M N S A L L I L A S R G P V S V G I N A S P R S F T Y Y R S G I D S S C T A A G M N H A Q A A V S N V G P V S V A I D G A N S A F R F Y Y S G V Y D S S R C S S S S L N A A N L V K H G P L A I G I N A V F M Q T Y I G G V S C P Y I C G K H L D H G V K A A L L I Q P L S I C L N S S D T S F K Y Y K S G V I T E C P Y D G P D H C N D A L V H V G P L S V S I D A T Q P T F Y F Y A G G Y Y D D E K C H L V L A V R L A L F K N G P A A V S I D A S H R S F V F Y S H G V Y Y E P A C G N T D H A L F K N G P A A S I N A S P H T F Q L Y H S G V Y D D V A C S S N H H A L F T A L N K Q P V S V A V F A M N T F W M Y Y R S G F I I F H C P G S Q S D H A
UniRef90_J3LWR1 UniRef90_I7LTG7	A A NL VK H G P L A I G I N A V F M Q I Y I G G V S C P Y I C G K H L D H G
UniRef90_A0A024GD25	NDALVHVGPLSVSIDATQPTFYFYAGGYYDDEKCHLVLAV
UniRef90_M3ZDZ6	RILIAILIF KNGPAAVISII DASHRSFVFYSHGVYYEPACGNTDHA
UniRef90_D6W755 UniRef90_A0A024TF17	LETALNKQPVSVAVEAMNTEWMYYRSGELEHCPGSQSDHA
UniRef90_Q2QKD8	<u>A</u> AW <u>L</u> AEHGPMST <mark>C</mark> LNAKYLQFYQSG <u>IL</u> HPSKAM <mark>C</mark> SPEGLN
UniRef90_A5C548 UniRef90_UPI00044197B5	L Q K A V A H L K A <u>A L Y K H P V A V N I D A S H K S F A F Y S S G I Y Y E P N C G N L D H A</u>
UniRef90_Q5CIN4	KTALAKYGPI SVAI QADQTPFQFYKSGVFDAPCGTKVNHG
UniRef90_V5GU72	KTALAKYGPI SVAI QADQTPFQFYKSGVFDAPCGTKVNHG LLAI VKHGPI SVAI DASHRTFSFYSNGVYYEPQCGNLDHA KHAVAEQGPVVVAI SASKRSFRFYKNGVYYDPNWGEI DHA
UniRef90_E1GHF0 UniRef90_UPI0002B49DF3	KHAVAEQGPVVVAI SASKRSFRFYKNGVYYDPNWGEIDHA LMKAVAHQPVAVSI ASRGSDFKFYGEGMFTEENFCGIRID
UniRef90_A0A059C7C5	LMKAVAHQPVAVSI ASRGSDFKFYGEGMFTEENF <mark>C</mark> GIRID LK AVAMQPVSVALDSSSAGFQHYVGGGIFEGPCGVNLNHA
UniRef90_K7XJ06 UniRef90_G6DFV4	A A KIVIETY G PIVIAIVIAII ID A S N WS F QILIY T G GIIIY D E P S C S S L D H G
UniRef90_A2GD33	KTEVAANGPYAVMINADSEQFRLYSSGVFDNPKCGKIILD
UniRef90_T0PJX3	LEKDIVQQPTTVAVEAGNDAWQYYKSGVITTCPGDESDHA
UniRef90_A8XMI2 UniRef90_J4C8S5	KSLVVT PTVTFMGVSPFFTKYOGGVVNGV <mark>C</mark> ADKI NHA
UniRef90_UPI000234EC3E	A K V E T Y G P V A V A I D A S N W S F Q L Y T G G I Y D E P S C S S L D H G E R A L A T L G P L A V A V N A A P F T F Q L Y R S G I Y D D P F C V S WH H A K T E V A A N G P Y A V M I N A D S E Q F R L Y S S G V F D N P K C G K I I L D L E K D I V Q Q P T T V A V E A G N D A W Q Y Y K S G V I T T C P G D E S D H A A D W V D S V G P V S F A M K L P K S F Y S K G I Y H P C N D P N N G Y H A K S L V V T P T V T F M G V S P E F T K Y Q G G V Y N G V C A D K L N H A M L R R V A V Q P V A A V I A V N E N V L T G Y T G G V F T G L C G S P T V W H L R D A V A E H V V A R Y L Y A D L Q D F V F Y K E G I Y N S P N C P K D K I T M V E A V G R H N P V S F A F E V T S D F M H Y R K S G V S D P R C E H V N H A K I P S F H R Y K S G I Y D D P G C N P R M V N
UniRef90_T1KVB8 UniRef90_H0ZI75	ILIR DAIVIA E HIV VIA RYILIY A DILIQ DFIVIF Y K E GILIY N S P N C P K D K IL T MIVIE A IVIG R H N PIVIS E A E E IVIT S D E M H V R K CIVIV S N D D C E H IVIN L A
UniRef90_W5L7R8	IRAVSAVGPVSVGINAKLPSFHRYKSGIYDDPGCNPRMVN
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UniRef90_B6D5T7 UniRef90_D0MR71	I R AVS AVG P V S V G I N A K L P S F H R Y K S G I Y D D P G C N P R M V N A A L V A K R G P I T V I M N A R L L Q N Y R S G I I T S H N C N P D L L D H V E D L L R H V G P I A I A V D A V D I T D Y Y G G I V S F C E N N G L N H A V V N D A L A T I G P L S V S I D A N L P S F Y F Y G G G Y Y D D V E C H S V L A V V E A V A L Y N P V S F A F E V T N D F M M Y R K G I Y S S T S C H K T P D K V L A K A V A W Q P I P V S I S I G A G F Q E Y Q G G I L R G G C S Y N P Y K N R K A V G T A G P V S I A F Q V A P D F R F Y K N G V Y D S T V C H S G E Q D V
UniRef90_L9L6G4	VE AVALYNPVS FAFEVT ND FMMY RKGLYSST SCHKTPDKV
UniRef90_M5WCG8 UniRef90_W4GRP5	RKAVGTAGPVSI AFOVAPDEREYKNGVYDSTVCHSGEODV
UniRef90_I1SRQ5	A A WL A ENGPI SVAL NAFAMQFYKKGVSHPWFCNPWMLDHA
UniRef90_UPI000350EBD0 UniRef90_B6RCZ0	RKAVGTAGPVSIAFQVAPDFRFYKNGVYDSTVCHSGEQDVAAWLAENGPISVALNAFAMQFYKKGVSHPWFCNPWMIDHAAAWLAENGPISVALNAFAMQFYKKGVSHPWFCNPWMIDHAAAWLAVKGPISIAINAFGMQFYRHGIAHPLQPLCSPWDHALKIAVATQPVSVAIDAGHRSFQLYTNGVYFEKECDPKAAVATIGPISVAIDAGHHSFQLYKKGTECTTSPSLIKAIATQPVSVLVESKGRAFQFYKGGVFGGPCGTKLDHAKDAVANIGPVSVLVESKGRAFQFYKGGVFGGPCGTKLDHA
UniRef90_H3EIY1	KAAVATIGPISVAIDAGHHSFQLYKKGTECTTSPS
UniRef90_Q94C46	LIKALATQPVSVLVESKGRAFQFYKGGVFGGPCGTKLDHA
UniRef90_M7ARJ1 UniRef90_I0YPQ4	LAQAVSQHPVAVAVCCGDDNWHAYTSGIFPGGCTDPLDHA
UniRef90_B0XCU8	LAQAVSQHPVAVAVCCGDDDNWHAYTSGIFPGGCTDPLDHAMKLALKHGPLSLAIDAGHKSFSYYANGVYYEPECKNNDHALATAVARQPVTAYVDASGPAFQFYGSGVFPGPRGMKPNHA
UniRef90_I1NMS4 UniRef90_U6JMC8	EMLKLLAFHGPLVASVDSSTWQDYLGGIIQYH <mark>C</mark> EDNSNHA
UniRef90_B8B609	RAALVRHGPLAVGLNAAYMQTYVGGVS <mark>CPLVC</mark> PRAWVNHG
UniRef90_T0QAH7 UniRef90_K4FSW4	LQAAIIDMQPVVVTVEAGNDIIWRNYKSDIVVTM <mark>C</mark> PGAASDHA
UniRef90_F0YCU2	LADALANAGPVSIALDASKQWQLYSGGLDPTHADHGVALV
UniRef90_Q5PXQ0	KKAVATUGPUSVAUDASQSTFHF
UniRef90_K3ZJ46 UniRef90_A9NW12	RAALVRHGPLAVGLNAAYMQTYVGGGVSCPLVCPRAWWNHAAAALVRHGPLAVGLNAAYMQTYVGGGVSCPLVCPRAWWNHAAAALVRHGPLAVGLNAAYMQTYVGGGVSCPLVCPRAWWNHAAAATWATYVGGGVSCPLVCPRAWWNHAAAATWATYVGGGVSCPGAASDHAAAQTVSTVGPVAVCVHTKTRSWQFYKSGILYDPLCKNYTYDLADALANAGPVSIALDASKQWQLYSGGIDPTHADHGVAIV KKAVATIGPISVAIDASQSTFHF LASAVTNQPVSVGIDAGTSSPFQFYQSGMMTGDGGAEMNH LLQAVVGQPVSVGISGGERAFQ LQSALDKQVVSVTVEAGNNVWRNYQSGVVQSCPGAQSDHAAKDVLRAVGPVVVAVASGNAAWKQYTGGVMTTCETTQVDHAAKDVLRAVGPVVVAVASGNAAWKQYTGGVMTTCETTQVDHAAKDVLRAVGPVVVAVASGNAAWKQYTGGVVSSCSSSQLDHAAAALVKHGPLSIGINAAAWMQTYIGGGVACPWLCDSEALDHGLVTALGGRPVAVGVAASGNAAWKQYTGGGVACPWLCDSEALDHGLVTALGGRPVAVGVAASGNAAWKQYTGGGVSSSCSSSQLDHAALIDALKGQPVVSIAIDGSGAEFMNYQSGVVSSCSSSQLDHAALIDALKAVSRQPVSIAIDGSGAEFMNYQSGVFSPTDCGTKLTHLLKAVSRQPVSIAIDGSGAEFMNYQSGVFSPTDCGTKLTHLLKAVSRQPVSIAIDGSGAEFMNYQSGVFSPTDCGTKLTHLLKAVANQLVSVSVEARDSAFQFYSSGIFTGKCGTDTDHSLLAKAVANQLVSVSVEARDSAFQFYSSGIFTGKCGTDTDHSLLAKAVANQLVSVSVEARDSAFQFYSSGIFTGKCGTDTDHSLLAKAVANQLVSVSVEARDSAFQFYSSGIFTGKCGTDTDHSLLAKAVANQLVSVSVEARDSAFQFYSSGIFTGKCGTDTDHAALLKAVANQLVSVVSVEARDSAFQFYSSGIFTGKCGTDTDHAALLKAVANQLVSVVSVEARDSAFQFYSSGIFTGKCGTDTDHAALLKAVANQLVSVVSVEARDSAFQFYSSGIVSMCNNNGLNHAAQKALLANVGQPVAAASFDYSDPCFQHYSSGIVSMCNNNGLNHAAAAALVVNAQLVSVVDDFMHYKSGTYSSKDCKGSPTDVMMQLALQQYGPLAVAIDDCI
UniRef90_T0Q4K9	LQSALDKQVVSVTVEAGNNVWRNYQSGVVQS <mark>C</mark> PGAQSDHA
UniRef90_W2G230 UniRef90_Q4PR56	KDVLRAVGPIPVAIDAASIVDYSR GIIRTCTYYGIINHA
UniRef90_Q010F9	A A A L V K H G P L S I G I N A A WMQ T Y L G G V A C P W L C D S E A L D H G
UniRef90_K3WB02 UniRef90_M4BGD1	IL VII AILIG G R PIVIAIVIGIVIA A G N N I WK Q Y K R GIV VIS S C S S S Q L D H A I I D AIL K I Q PIL VIA A VIA S G N A A WK Q Y T G GIL I S S C F T S S I D H A
UniRef90_UPI00046E241D	L L K A V S R Q P V S I A I D G S G A E F M N Y Q S G V F S P T D C G T K L T H
UniRef90_K7KXS2	L L K A V A N Q L V S V S V E A R D S A F Q F Y S S G I F T G K C G T D T D H S
UniRef90_A2HKA5 UniRef90_A2DLD4	LIEAVQTSVCSLLIDASINSFMQYKSGIIYDDTKCHYVNLV
UniRef90_Q0IL45	RELVYTVGPLAVALDCL DLIDYKSGLVSMCNNNGLNHA
UniRef90_B7PT25 UniRef90_M8A3P6	L MEAVAQQPVAASFDYSDPCFOHYIIRGVYNGACGTTONHA
UniRef90_E4X561	A E A MV MY Q PLISTAFEV V D D F M H Y K S G T Y S S K D C K G S P T D V
UniRef90_E9G0H3 UniRef90_Q50IU7	MQLALQQYGPLAVALTVYPSFYSYASGVYDDNA <mark>C</mark> DGQAVN
UniRef90_V9LSX8	K D V L R T A G P V P V A L D A A D L V E Y D R G M R Y C S N S G L N H A V V
UniRef90_A1L2T8	MASSIVAKDGPIITIVGFAVAEDFMFYSKGIIFDGECAPSPNHA
UniRef90_S5MQQ3 UniRef90_G7Y398	AVWLSKNGPLSAGINADY
UniRef90_K7L642	LLSATLEQPISVAMDA RDFHFYTGGIYDGGNCSSPYGL
UniRef90_A4HA92 UniRef90_B6S6T4	RELLVSNGPISVAIDVMDVTNY OSGIAKHOSVAHGINHA
UniRef90_Q4UCF2	I LNKSLVVS PTI VPINLS HDFVKYKS GVYNGKCGHYPNHV
UniRef90_W5H3J5 UniRef90_P35591	LIQKAIVIAAQPIVISIVIAIVIDGGDNILIFRFYKGGIVLISGDCGTELDHG
UniRef90_Q7KWP5	LESAVSLKPVAAYIDASLSSFQFYSSGIYYEPSCNSTDLN
UniRef90_Q9NHY4	K D L L R S V G P I P V A I D A S D I V N Y K R G I M K Y C A N H G L N H A V V A V W L S K N G P L S A G I N A D Y L L S A T L E Q P I S V A M D A R D F H F Y T G G I Y D G G N C S S P Y G I E A W L E K N G P I S I A V D A T T W Q L Y F G G V V S N C F A Y N L N H G R E L L V S N G P L S V A I D V M D V T N Y Q S G I A K H C S V A H G L N H A I L N K S L V V S P T I V P I N L S H D F V K Y K S G V Y N G K C G H Y P N H V L Q K A V A A Q P V S V A V D G G D N L F R F Y K G G V L S G D C G T E L D H G A E W V E K R G P V A V A V D A T T W Q L Y F G G V V S L C L A W S L N H G L E S A V S L K P V A A Y I D A S L S S F Q F Y S S G I Y Y E P S C N S T D L N L N K S L V V S P T I V A I A A S K E F T A Y K G G I F T G E C A P E L N H A K I A L F N N G P V S I A I D A A L K S L S F Y S S G V F Y D P K C E D L D H A F K E A I K F L G P I S V S I C A N D D F V Y Y E G G L F D G S C G F S P N H A L A K A V A T Y G P M I S I D A S Q H S F M L Y K E G I Y D E P K C S D L D H A
UniRef90_V4AB89 UniRef90_A5K4G8	FKEAIIKFILGPILSVSII CANDDFIVYYEGGILFDGSCGFSPNHA
UniRef90_A2E346	LAKAVATYGPMISIDASQHSFMLYKEĞIYDEPK <mark>C</mark> SDLDHA

UniRef90_B0EIS2 UniRef90_W5BJ31 UniRef90_H0YRR8	GVGTQDGKDYYI VKNSWGTSWGDKGYI LMSRNKNNQ VTVVGYGEKFWI VKNSWGQTWGEHGYI RMQR LDHVLQGETYWLI KNSWSTYWGNDGYI LMAMKDNN	200
UniRef90_R0HK07 UniRef90_F4PRJ8 UniRef90_V9KYG7 UniRef90_UPI000351181F	NHGVEDNVPYWLIKNSWGGAWGDKGYFKMEMGKN VLVVGYGTQFWKVKNSWGPEWGLSGYIQMARNRDNN MLLVGHGKKYWILKNSWGNRWGDNGYVYLARDRGNH HGVLVVGYGF	
UniRef90_A2DU12 UniRef90_E9LZ04 UniRef90_J3JZZ3 UniRef90_D2VLP8	VGCVGFGKNYWIVRNSWGEYWGEKGYIRMIKDKNNQ VLLVGYGVPYWVIKNSWGEDWGEKGYVRVAMGLN VLLVGYNPPYWIVKNSWGTLWGEDGYVRIAKGTN QC VLIVGYGQPYWIVKNSWGYDFGEDGYFRIVKGV GRC)
UniRef90_F9WCL8 UniRef90_L8H305 UniRef90_Q2MEV3 UniRef90_J3LWR1	V L L V G Y D P P Y WI I K N S W S K G W G E K G Y I R I E K G T N V T V V G W G N P Y W L I K N S W G T S W G L S G Y A Q L G R N S G N M C H A M V V T G Y K Y W L A K N S W G T N W G N S G Y V M M A R N K Y N Q C V L L V G Y G K P Y W I I K N S W G E N G Y Y K I C R G P H V Q N K C L L L V G Y G H D Y W L I K N Q W G T T W G E E G Y V R I I R D D N D H K G K C	•
UniRef90_I7LTG7 UniRef90_A0A024GD25 UniRef90_M3ZDZ6 UniRef90_D6W755 UniRef90_A0A024TF17	GFTTFRDQKFTLIKNSWGRFWGEDGY KILAQ KNN <mark>V C</mark> VLAVGYGTPYWLVKNSWSTYWGNDGY <u> LM</u> STKDNN C MLIVGYTKNAWILKNWWGK <mark>H</mark> WGEKGYMRLRRGKN RC	
UniRef90_Q2QKD8 UniRef90_A5C548 UniRef90_UPI00044197B5 UniRef90_Q5CIN4	VLAVGY DESSYKI RNSWGESWGEGGHIRL RRGAGGK GMCHYDTKHGIPY WII KNSWGTSWGEDGY FRLYRGD GTC	
UniRef90_V5GU72 UniRef90_E1GHF0 UniRef90_UPl0002B49DF3 UniRef90_A0A059C7C5	V L AV G Y G K D Y WL I K N S W S N Y W G N D G Y L M A A K D N N C V L V V G Y G T H Y WI V K N S W G T G W G D N G Y F H T V V V V G Y D Y WI I R N Q Y G T Q W G M N G Y M K M Q R G T R S P Q G V C AV I V G Y G T D Y W L L R N S W D V T W G E E G Y M R I L R N S G I P G G L C	
UniRef90_K7XJ06 UniRef90_G6DFV4 UniRef90_A2GD33 UniRef90_T0PJX3	WGCVGFGTKYWIVRNSWGTSWGEAGYIRMI WQDNQCMLLVGYTPEYWILLNWWGEQWGENGYMRIKRGLN ICHVVVEDGKDYWLVRNSWGKYWGLEGYIKMSRNKDNQ VVALGYGVKYFKIRNSWGTKWGEQGYVKLQRGVGGK GMC	
UniRef90_A8XMI2 UniRef90_J4C8S5 UniRef90_UPI000234EC3E UniRef90_T1KVB8	MTLIGYGNEYWIVKNSWGSGWGDQGYMRLARGQN VC VLLVGEGYRYWVVKNSWGTDWGEDGYFRLQR TDEGSDMC AVTVGTSLNYWVVKNSWGPSWGEGGYIRISRDEGGNDGLC HLVTENGTPYWIFKNSWGEHWGENGYGRILRGNN TO	
UniRef90_H0ZI75 UniRef90_W5L7R8 UniRef90_UPI0003D0FC38 UniRef90_B6D5T7	VLAVGYGQPYWIVKNSWGRLWGMQGYFLIERGKN MCHYGTEGGQDYWLLKNSWGLMWGEKGFFRMARNKN QCVLIVGYGIPYWIVKNSYGLDWGEKGYFRIYRG GNACGYGVENNVPYWILKNSWGSDYGEDGYVRVRRGVNSCGMIN)
UniRef90_D0MR71 UniRef90_L9L6G4 UniRef90_M5WCG8 UniRef90_W4GRP5	GIVIT THND Q K Y TL V K N S W S TH W G E D G Y L K I S Q K N N L C N H A V E N G L P Y W I V K N S W G P Q W G M N G Y F L L E R G K N M C K H T V D H H E D Y W I V K N S W G E D W G E G G Y F N L A R D K N M C	
UniRef90_I1SRQ5 UniRef90_UPI000350EBD0 UniRef90_B6RCZ0 UniRef90_H3EIY1	WLLVGYGIPFWAIKNSWGEDYGEQGYYYLHRGSN ACMLIVGYGKPFWAIKNSWGTDWGEEGYYYLHRGSRS)
UniRef90_Q94C46 UniRef90_M7ARJ1 UniRef90_I0YPQ4 UniRef90_B0XCU8	VTAVGYGKDYLIIKNSWG AVLVLDGKDFWLVKNSWGVKFGDKGYLRMSR NKRNQC VVVVGYGTDFWIIKNSWGETWGEKGFFRVPRNVGAPLAAF VLAVGYGTDYWLIKNSWSNLWGNDGYALMAMKDNN	; ;
UniRef90_I1NMS4 UniRef90_U6JMC8 UniRef90_B8B609 UniRef90_T0QAH7	VITL V G Y G K K Y WI A K N S W G K T W G Q Q G Y I L L E K D V A S P H G T C V Q I V G Y D I P Y Y I V R N S W G I E F G I D G Y L K I A I G K N V L L V G Y G R P Y W I I K N S W G K A W G E Q G Y Y R L C R G R N V V A V G Y G T A H Y K I R N S W G F Y W G D H G Y I Y I E R G V G G K G M G	
UniRef90_K4FSW4 UniRef90_F0YCU2 UniRef90_Q5PXQ0 UniRef90_K3ZJ46	HGILVOGFHYWIVKNSWGSRWGMKGYIWIAKDRNNH GYGTDDGVDYWWIRNSWGTTWGESGYMRLERGVN AC YGTDENGDQYWILKNSWGTGWGQDGYMMLQRGT GAC)
UniRef90_A9NW12 UniRef90_T0Q4K9 UniRef90_W2G230 UniRef90_Q4PR56	VLAVGYGVNHFKIKNSWGTGWGEGGYIYLQRGV SGRGMCVLVVGYDDNTFKVRNSWGENWGEAGYVRMAR SSSGMGTCVLLVGYGVQYWTLKNTWGDDWGEHGYFRVRQNVNSCGIIN	,
UniRef90_Q010F9 UniRef90_K3WB02 UniRef90_M4BGD1 UniRef90_UP100046E241D	VLIVGYGEPYWLVKNSWSPAWGEGGYYRICKDK GSCVLAVGYGTPFFKIKNSWSPAWGEGGYYRICKDK GSCVLAVGYGTPFFKIKNSWGTTWGEAGYIRLKRGV SGAGTCVVIVGYDDTTIKIQNSWGEDWGEAGYIRLQR TSSSSGTCYGTTEDGTKYWLLKNQWGESWGENGYMKILRDAGAPEGVCYGESGDGTKYWLAKNSWGTEWGEKGYIRLK	
UniRef90_K7KXS2 UniRef90_A2HKA5 UniRef90_A2DLD4 UniRef90_Q0IL45	YGESGDGTKYWLAKNSWGTEWGEKGYIRIK VGCVGYGQAYWIVRNSWGTTWGEKGYIRMIKDKDNN GYGSESGINYWIIRNSWGEAWGESGYIRII INNAANVC VLLVGFGIPYWILKNSWGNDWGEKGYFRLKRNINGCGMMN VLAVGYGTPYWLIKNSWSTYWGNDGYVLISQKDNN	<u>,</u>
UniRef90_B7PT25 UniRef90_M8A3P6 UniRef90_E4X561 UniRef90_E9G0H3	LALVGYGTKYWLGKNSWTDQWGDKGFVYFLRDSPPLGLCNHAVGAGTDFWTVKNSWSKDWGNQGYFNLQRGVN MCHAVVLVGWDYWLVRNSWGTNWGLSGYFFMKRGVN KC	
UniRef90_Q50IU7 UniRef90_V9LSX8 UniRef90_A1L2T8 UniRef90_S5MQQ3	HALVVIGYDYWLVKNSWGPNWGVRGYGKLARNKGNK GYGVQDGVPYWTFKNSWGDDWGEQGYFRVRQNVDACGMRN IIVVGYGTDYWIIKNSWGEHWGEEGFGKIQRNKD GYAVENGVPFWLLKNTWGADWGEQGYFRVQQNIN AC)
UniRef90_G7Y398 UniRef90_K7L642 UniRef90_A4HA92 UniRef90_B6S6T4	NHFVLDGVDYWIVKNSFGKDWGMDGYIWIQRNIANPIGVCVLLVGYNNPYWIVKNSWGTSWGEHGYIRLAKGSN QCMMKVLLVGYGVQYWVFKNSWGSDWGENGYFRVLRDVNS	()
UniRef90_Q4UCF2 UniRef90_W5H3J5 UniRef90_P35591 UniRef90_Q7KWP5		
UniRef90_Q9NHY4 UniRef90_V4AB89 UniRef90_A5K4G8 UniRef90_A2E346	VLLVGEGHRFWIVKNSWGTDWGENGFFRLER TDEGSDKCVLAVGYGVYYWLVKNSWSTYWGNDGYVLMSQ KDNICVILVGYGMYYFWLKNSWGEKWGEKGYMKIQTDEYGLMKTCVGCVGYGKDYWIVRNSWGEVWGEKGYVRMLRNKNNQ	

<mark>C</mark>

	240
UniRef90_B0EIS2	ALASVAYFP 210
UniRef90_W5BJ31 UniRef90_H0YRR8	GVATEATYPI
UniRef90_R0HK07 UniRef90_F4PRJ8	G
UniRef90_V9KYG7	GIATTASQPIV KLTSSALYPV
UniRef90_UPI000351181F UniRef90_A2DU12	GIATMACIPV
UniRef90_E9LZ04	
UniRef90_J3JZZ3 UniRef90_D2VLP8	L V K E E A S S A V V GI N T V P S
UniRef90_F9WCL8	
UniRef90_L8H305 UniRef90_Q2MEV3	GIATMASQP GIATD <u>A</u> SYPT
UniRef90_J3LWR1 UniRef90_I7LTG7	GVDSMVS FVVAEVRYPI
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UniRef90_A2GD33 UniRef90_T0PJX3	GIATEAVIPLID NVAEFPAYP
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UniRef90_T0Q4K9	NVANGVSYPT
UniRef90_W2G230 UniRef90_Q4PR56	G M L T D M S R P K M D L A S T <u>A</u> V
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UniRef90_E4X561	GILSOCTSFALLIK
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UniRef90_A4HA92	D Y <u>A </u> M S A T
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UniRef90_A2E346	GVATEAY

UniRef90_K7KXR3 UniRef90_F4PGM8 UniRef90_G7YW57	1
UniRef90_K3ZLF6 UniRef90_A1XG96 UniRef90_S5MK26 UniRef90_T1GHQ4 UniRef90_Q64F55	F P A E V D WR Q K G A V I G V N N Q E D C G C C WA F S A V A A I E G I H Q I L A A S V D WR S N A V S E V K D Q G Q C G S C WS F S T T G A I E G Q L A L P L N F D WR S Q N K V T S I K N Q G A C G S C WS F G T I G A I E G A Y F L Q D WR L K G A V T P V K N Q G A C G S C WS F S T T G N L E G Q H A I
UniRef90_A0A024T9A5 UniRef90_E7FA09 UniRef90_R7TA10 UniRef90_UPI0003C28603 UniRef90_M4ZTQ4	P P R F D WR D H GV V G P V H N Q G N C G S C WA F S S V G I S E S A H C L P P R F D WR D H GV V G P V H N Q G S C G G C WA F S I V E A I E S V S A K L P H S V D WR T K G F V S E V Q D Q G A C S S S Y A F A A L G A V E G Q V F N V P D A V D WR D K D C V T D V K T Q G A C G A C WA F S A L G A L E A Q V K L P D S I D WR K K G Y V T P V K N Q G G C G S C W T F S T T G C L E S V T A L
UniRef90_T1HW30 UniRef90_I7LVU8 UniRef90_I1FNU3 UniRef90_H2UT61 UniRef90_C5LCY0	GVETPMWDLG
UniRef90_B3L9I5 UniRef90_G8A0A3 UniRef90_Q58HF6 UniRef90_V5GS19 UniRef90_I7FIQ6 UniRef90_U3K3U8	LPESI DWREGGAVTSVKRQGACASCWAFATLAAVEGI VQI SVNWVSKGAVQGVQNQGVCGSCWAFATLAAVEGI VQI DEFDWREKGAVTPVKDQGFCGSCWAFSSTGALEGQYFL
UniRef90_E1BPI9 UniRef90_A9QXJ6 UniRef90_C3TWW7 UniRef90_D8RYI4 UniRef90_T0R765	
UniRef90_Q231X3 UniRef90_F0WJS8 UniRef90_UPI0003D0B7CE UniRef90_G1PKL8 UniRef90_Q94504	PLRFDWRDKHVVTQVRNQKTCGGCWAFSVVGAVESVCAII PAAVDWRQMGAVTPVNDQGACGSCWAFSAIGNIESQWYV PLNFDWRQQNKVTPIKNQGACGACWAFATLASLESQYAI PEAVDWRTRGAVCPVRSHVMTGSSVVFSAAAAAEGANAI DWTTGKCMPAIKNQGSCGSCWSFAAVGASAMAHCL NINWVEAGKVSNVKSQGNCGSCWAFSATASVESALII PKSVDWTSSKCLAKPKDQGMCGSCWAFSATASVESALII PKSVDWTSSKCLAKPKDQGMCGSCWAFSATASVESAYAI LPKFDWRDKNVVTEVKNQNTCGGCWAFSVVGGIESAYAI LPLRFDWRDKHVVTTUVKNQQACGGCWAFSVVGGIESAYAI LPLRFDWRDKHVVTTUVKNQQACGGCWSFSTTGATEGAQYL LPLRFDWRTQGAVTPIKNQGGCGGCWSFSTTGATEGAQYL LPESVDWRKEGAVAEVKDQGSC
UniRef90_M4CMP1 UniRef90_K1QS82 UniRef90_J9ICC4 UniRef90_UPI00042C1A37 UniRef90_K7FPQ2	L P E S V D WR K E G A V A E V K D Q G S C L P S E V D WR K E G W V G P V G N Q F A C G S C WA F T A T G A L E G Q V R N L P T N F N WN E R G R D S P V K D Q G L C G S C Y A F S A L S Q L E S L L M L G R C A S G WA F S A A G A L E V Q M F R L P T K F D WR D K N V V T Q V R N Q Q T C G G C WA F S T V G A I E S A Y A L
UniRef90_B4QXN0 UniRef90_H3H0S9 UniRef90_P46102 UniRef90_W4FQ99 UniRef90_G6CTE7	L P E S V D WR K E G A V A E V K D Q G S C L P S E V D WR K E G A V A E V K D Q G S C L P S E V D WR K E G W V G P V G N Q F A C G S C W A F T A T G A L E G Q V R N L P T N F N W N E R G R D S P V K D Q G L C G S C W A F S A A G A L E V Q M F R L P T K F D W R D K N V V T Q V R N Q Q T C G G C W A F S T V G A L E S A Y A L S S V D W T K S P C L S P V Q N Q G Q C G D C W A F S T S G V L E A H L A K S S V D W T K S P C L S P V Q N Q G Q C G D C W A F A S A S V V E S A Q C L F P D S R D Y R S K F N F L P P K D Q G N C G S C W A F A T L G V V E T A H C L L P S Y V D W R E K N V V T A V K N Q G R C G S C W A F S T V Q T V E S M H A L V D H R E K G A V T A V Q D Q G H C G S C W S F A T V G A V E G A W A A P S T F D W R N K G V V T P V Y D Q G Q C G S C W A F S A T I G T V E T A H C L K S K D W R T E G A V T P V K N Q G S C G S C W A F S A T I G T V E T A H C L K S K D W R T E G A V T P V K N Q G S C G S C W A F S A T I G A M E G L N A L
UniRef90_E9G115 UniRef90_L1JSA4 UniRef90_L8GL12 UniRef90_W4FS67 UniRef90_R0I219 UniRef90_UP100042B4E4B	VD HREK GAVITA V QD QGHCGS C WAFS T V QT V E S MINAL PSTFD WRN K GV VTPV Y D QGQCGS C WAFS AT ENI ESQWAL D WSK SKCNPPI AN QGSCGS C WAFAT I GTVETA H CI K SKD WRTEGAVTPVK N QGAFGS C WAFS STGAMEGINA
UniRef90_H3B6T8 UniRef90_H2ZVJ7 UniRef90_UPI0003D712E6 UniRef90_F0XXE8 UniRef90_A0A024T8Y5	KHCDWRNRGAVTVVKNQGKCGSCWAFGVTSNVESQWFMPAIDWRNKHCVTPVKNQLSCNSCWIFAAVGVVESRYCILPKFINWKKRGYVTPVQTQGRCNSCWAFSVTGALEGQMFRALDWVAKGAVTGVKNQGQCGSCWAFSTTGAMEGALFAASVDWTTNKCVNPVGSQGICNTGYVFAAVGAAFMAHCI
UniRef90_UPI00042BB01C UniRef90_Q23H01 UniRef90_Q23VA2 UniRef90_P56203 UniRef90_C3UWD9	L PLR F D WR D K R V V T P V R N Q Q T C G G C WA F S V V G A V E S A Y A I L A T S I D WR T K G A V T S V K N Q G N C G S C WS F S A T G L M E S F N F I L N C S V D W R T C G K V S B V K N Q G N C G A C WA F S A T G L M E S V N I M C S V D W R T C G K V S B V K N Q G N C G A C WA F S A T G L M E S V N I M C S V D W R T C G K V S B V K N Q G N C G A C WA F S A T G L M E S V N I M C S V D W R T C G K V S B V K N Q G N C G A C WA F S A T G L M E S V N I M C S V D W R T C G M C W A F S A T G L M E S V N I M C S V D W R T C G M C W A F S A T G L M E S V N I M C S V D W R T C G M C W A F S A T G L M E S V N I M C S V D W R T C G M C W A F S A T G L M E S V N I M C S V D W R T C G M C W A F S A T G L M E S V N I M C M C M C M C M C M C M C M C M C M
UniRef90_D7F2M6 UniRef90_Q5YER0 UniRef90_I2G9B0 UniRef90_W4XED8 UniRef90_G4LUV4	V P R T C D WR K K N I I S S V K N Q G S C K C C WA MA A A D N I Q A L WR I L P D S I D WR K K G Y V T P V K N Q G G C G S C WT F S T T G C L E S V I A I L V D WR S K G A V T G V K D Q G Q C G S C WS F S A T G A L E G A H F I D S F D WR D F N A L T P V K D Q G C G S C WA F S A T Q A L E S A H Y I A E V D WR T K G L V N P I K D Q G I C G S C WA F S T I T A C E S R WA Q V P D H I D W N V R G A V S P V K D Q A V C G S C WS F G S A E T I E G A V F M P D S Y D WR H F N L V N E P R D E G S C I G S Y A F A V T A V T E S Q Y A L
UniRef90_UPI0003EC01F7 UniRef90_K7FPE4 UniRef90_W2KGG1 UniRef90_UPI00038714B0 UniRef90_Q23H17 UniRef90 K7J8W5	PDSYDWRHFNLVNEPRDEGSCIGSYAFAVTAVTESQYALLPDKFDWRDKAAVAPVQDQQACGSCWAFSVVGAIQSVHALLPDGIDWRKKGYVTSVKNQGSCGSCWAFSAVGALEGQLKKGCVNPPGLQGQCGSCWAFASLGALEAAQCILPDSWDWRNVNYVSPVRNQGSCGSCYAFSSMGMLEARIRILATSIDWRTQGAVTSVKYQGNCGSCWSFAGALMESFNFILLPDKFDWRTKGAVTAVKSQGSCGSCWAFSAVFTAFSMFALL
UniRef90_G4YZQ7 UniRef90_F0Y9S5 UniRef90_Q24FN2 UniRef90_R4WEA6 UniRef90_C4M1N5	L P D K F D WR T K G A V T A V K S Q G S C G A C WA F S A V E T A E S M F A I T V D WS R S A C M S P I Q N Q G Q C G D C WA F A A T A A V E S A Q C I L P D A L D WR S R G V V S E V K N Q G H C G S C WT F S T V G A L E A H L A L S I D WR Q S G A V S P V K N Q G S C G S C WA F S A V A L A E S V N L L L P G T V D WR E I G F V T P V K N Q G M C G S C WA F S T T G S L E G Q V F S L P E G I D F R K F G K L T Y I R E Q T G C G G C W F S S V C A L E S R Y L I
UniRef90_UPI0003DE816E UniRef90_ESSFB4 UniRef90_C8CBX9 UniRef90_F7EY12 UniRef90_Q8BM88	PNKFDWRNYNV VT KVKRQGK GSS WAFST T GSVE GOVAL
UniRef90_Q23FQ5 UniRef90_E1Z2M0 UniRef90_K1QAY3 UniRef90_UP100038BFE29 UniRef90_Q23VA1	SCDWRKAGVLTPVRKQKKCRSCWALAAVGNVEALWAL PLRFDWRDKHVVNPVRNQEMCGGCWAFSVVSALESARAL PTSVDWRNSGALNPLQNQGQCGSCAAFGTAGVLESFYYL LPARFDWRDKGKVTDVKDQSVCGSCWAFAATASLESKLL LPARFDWRTTGFVSPVRNQGGGGSCYAFSAMGMNEARWRL VPPSCDWRKTNLISSIKNQESCRCCWAFSAMGMNEARWRL VPQSVDWRLQGKVSPVKDQGRCGCCWAFSATALAESVNLM
UniRef90_F0Y672 UniRef90_Q94714 UniRef90_UPI0004423A41 UniRef90_Q7RRE8 UniRef90_UPI0003340FAC UniRef90_E9G0F1	V P Q S V D W R I Q G K V S P V K D Q G R C G C C W A F S A T A L A E S V N L M P D A V D W R D E G A V T A V R D Q G S L G T C W L F S T V Q N L E G Q A A I A E V D W T D N K K V P A V K N Q G S C G S C W A F S A V G A L E L N T D I P K P C N W T K A G A L P P V K D Q G E C K A C W A F A A V S N I E A L W K I T S F D W R D H N A I I D I K D Q Q K C A S C W A F A T A G V V A A Q Y A I P S T C D W R K Q E Y I K S V R D Q K N C N C C W A L A A A G N V E A L W A I L P A S L D Y R S N K C L Q P V K D Q G P C S S C W S F A A L T P L E F N Q C K

Indexedo CAYCARGA INTERESO CAYC		50 60 70 80
INTERIOR GYYWST H N N O LLE, T LS T O Q LL ID C S G N G G S T G G S S Y T S F Y Y L K S G S L INNERSO GYYWST H N N O LLE, T LS T O Q LL ID C S G N G G S G N G G S G N G G S G S G S	UniRef90_K7KXR3	T G E L V F L S E Q E L V D C V R G D S E A C H G G F N A F E F T A N K G G T
Interest Accordance Accor	UniRef90_F4PGM8 UniRef90_G7YW57	HNNQ L ET L STQQ LI D <mark>C</mark> SGNGG <mark>C</mark> TGGDS V TSFKY L KESGG L
Interest	UniRef90_K3ZLF6	K T G D L V S L S K Q Q L L D <mark>C</mark> S T N G N Y G <mark>C</mark> N G G N M D F E Y T I S N <mark>C</mark> G I
A T G G L V A V S E G S D Y S G D P D C C C N G G L M D N A F G W A H S G C L M D N A F G W A H S G C L M D N A F G W A H S G C L M D N A F G W A H S G C L M D N A F G W A H S G C L M D N A F G W A H S G C L M W A S G W A H S G C L M W A S G W A H S G C L M W A S G W A H S G C L M W A S G W A H S G C L M W A S G W A H S G C L M W A S G C M M S G L M W A F G W A H S G C L M W A S G C M M S G L M W A F G W A H S G C M M S G L M W A F G W A H S G C M M S G L M W A F G W A H S G C M M S G L M W A F G W A H S G C M M S G L M W S G C M M S G L M W S G C M M S G L M M S G C M M S G C M M S G L M M S G C	UniRef90_A1XG96	QRGRILTSILSEQNILIDCSSSYGNAGCGWMDSAFSYIIHDYGII
A T G G L V A V S E G S D V S G D F D C G N G G S M D N A F G W A L S G C I V S G D F D C G N G G S P M D G G N A F G G V A L S G C I V S G D F M D C G N G G S P M D G G N A F G G V A L S G C I V S G D M D C G N G G S P M D G	UniRef90_S5MK26 UniRef90_T1GHQ4	KTGNLVRLSQQALIDCSGNNGCDGGEDFRVYKWMQKVGGV
Junkel 90 PTA103	UniRef90_Q64F55	A T G QIL VIAIVIS E Q EIL VIS C D PII ID D G C N G GIL IM D N A F G W A H K G QII I
Interest		G G F KIL Q QIL ISIVIQ QIV I D C S Y Q N Q G C N G G S PIVIF A IL IV WQ S KIL KIL
Junkes M42T04	UniRef90_R7TA10	K T G K L T T L S A Q N I V D <mark>C</mark> A G G D G <mark>C</mark> N G G I L D N T L D Y I M A F K G V
James		KTGKLESLSAQNLVDCSTMYGNHGCNMTEAFQYII I DNHGII
June June	UniRef90_T1HW30	KNGSI ENI SPOOL VD <mark>C</mark> SVLAGNYG <mark>C</mark> GSLRSTARYVOSSGI
June June		KNKNLITNFSEQQLVD <mark>C</mark> GYSSNG <mark>C</mark> NGGNPTQ <mark>C</mark> LDYSSKFGL
June	UniRef90_H2UT61	GGSQILVIFILISIVIQQIV LID <mark>C</mark> SFQNKG <mark>C</mark> NGGTPIVIAAILIKWQTRIVIKII
June	UniRef90_C5LCY0	VIT G QIL VISILIS E Q E IL I I D C S T A Y G N Q G C N HILIN D S Y E Y VIA D H G IL E H D K TIL TILIS E O E IL VID C S K II N E G C D G G H P E Y S E II Y A II E N G IL
Junkers Junk	UniRef90_G8A0A3	KNRFII VISII ISAS GII VIKEAYDYII IKKNFII I
Junkers Junk	UniRef90_Q58HF6	NTGKILLISFSEQQILVIS <mark>C</mark> EPKSYG <mark>C</mark> DGGWPEAAFAYSATHGIL
Jimiragio Cativw7	UniRef90_I7FIQ6	M D <u>Y</u> A F E <u>F </u> K Q K <u>G</u> G L
Jinkergo Dagovia Jinkergo Dagovia Jinkergo Dagovia Jinkergo Dagovia Jinkergo Dagovia Jinkergo Dagovia Jinkergo Dagovia Jinkergo Dagovia Jinkergo Dagovia Jinkergo Jin	UniRef90_U3K3U8	KRNTLEELSVQQVLD <mark>C</mark> SYNNYG <mark>C</mark> SGGSTVSA <u>WL</u> NQTKVKL
Junkel90	UniRef90_A9QXJ6	TTHSITISEQEIVS <mark>C</mark> DDVDEG <mark>C</mark> NGGIMIQAEDWNKNGAV
Jinkel90	UniRef90_C3TWW7	RNNIVIHLIDILISEQQMII DCDYVDMGCYGGLLHTAFEQMII QMGG
Jinkergo Folwuss Jinkergo Folwuss Jinkergo Green Folkuss Jinkergo Green Folkus Jinkergo Jinkerg	UniRef90_T0R765	VIT G OIL LIDILIS E O OIL VIS <mark>C</mark> S S A G O G <mark>C</mark> O G G W P N K A IL IE Y IL IA O T GIVI
JAMERSON J. J. J. J. J. J. J. J. J. J. J. J. J.	UniRef90_Q231X3	KVDKSIISLISEQQILID <mark>C</mark> SGDYGNYGCGGQKEQAILVIYII KRYSII
Jinkersion Jin	UniRef90_UPI0003D0B7CE	KRNNLEELSVQQVID <mark>C</mark> SYNNYG <mark>C</mark> SGGSTVSALNWQTQVKL
Jinkersion Jin	UniRef90_G1PKL8	K G K P L E D L S V Q Q V I D C S Y N N Y G C N G G S T F N A L N W K T Q V K L
Jinker90, K10S82 Jinker90, W10S024 Jinker90, UP100042C1A37 Jinker90, UP100042C1A34 Jinker90, UP10042C1A34 Jinker90,	UniRef90_M4CMP1	MMGDILI ISILIY EQEIL VID <mark>C</mark> D I PYNEG C SGMDYAFKFII I INNGGIVI
Jinkergo UP100042C1A37	UniRef90_K1QS82	KTGKLIVLSVQQMMD <mark>C</mark> SEKWGNHG <mark>C</mark> GLMDAAFKYIHDVGG
JAMERGO K7FPQ2 JAMERGO MADXNO JAMERGO H3HOSO A G G Q L N K F S E Q Q L V S C N T Q N Y G C N G G A P Q Y A F D Y L M N N G E JAMERGO H3HOSO A G G Q L N K F S E Q Q L V S C N T Q N Y G C N G G A P Q Y A F D Y L M N N G E JAMERGO M4FQ99 A T G E L L D L S E Q Q M V D C S T E N Y G C D G G M D P F A A F K Y L L D Y G I JAMERGO E96115 A T G E L L D L S E Q Q M V D C S T E N Y G C D G G M D P F A A F K Y L L D Y G I JAMERGO E96115 A T G E L L D L S E Q Q M V D C A W G Y N N A G C M G G N D P F A A F K Y L L D Y G I JAMERGO E96115 A T G E L L D L S E Q Q I V S C S T N G G N N G C N G G N D P F A A F K Y L L D Y G I JAMERGO E96115 A T G E L L D L S E Q Q I V S C S T N G G N N G C N G G M D T A F K Y L L D Y G I JAMERGO L8GL12 JAMERGO L8GL12 A G N K L L P L S Y Q Q V I D C A W G Y N N A G C N G G M D T A F K Y L L D Y G I JAMERGO L8GL12 JAMERGO L8GL12 A G N K L L P L S Y Q Q V I D C A W G Y N D Y A F E W I I R N O G G JAMERGO H3GL12 JAMERGO L8GL12 JAMERGO L8GL12 A G N K L L S L S E Q E L M D C D T N Y G C D G G Y M D Y A F E W I I R N G G L M G G M G C N G G Y P S P A L D W M Q Q G V M D Y A F E W I I R N G G M G C N G G Y M D Y A F E W I I R N G G M G C N G G Y M D Y A F E W I I R N G G M G C N G G Y M D Y A F E W I I R N G G M G C N G G Y M D Y A F E W I I R N G G M G C N G G Y M D Y A F E W I I R N G G M G C N G G Y M D Y A F E W I I R N G G M G C N G G Y M D Y A F E W I I R N N G G M G C N G G Y M D Y A F E W I I R N N G G M G C N G G G G G G G G G G G G G G G G G	UniRef90_UPI00042C1A37	K T G K R V S L S V Q N L L D <mark>C</mark> S W P Q G N F G <mark>C</mark> N M S N A F Q Y V K D N G G L
Jinkel90 H3H0S9 Jinkel90 H3H0S	UniRef90_K7FPQ2	KRNDIJE EIJSVOOVIJDCSVNNVGCHGGSTVSAWMNOTOVKI
Jinker90	UniRef90_H3H0S9	A G G Q L N K F S E Q Q L V S <mark>C</mark> N T Q N Y G <mark>C</mark> N G G A P Q Y A F D Y I M K N G F
Jinker90_G6CTE7	UniRef90_P46102	RHEMPILISESEQQMIVIDCSTENYGCDGGNPEYAFILIYMILINNGIVI
Jinker90_ 1135A4 Jinker	UniRef90_G6CTE7	KNGGRII IDII IS FOSIL VID <mark>C</mark> AWGYHNAG <mark>C</mark> GMII ID TAFKYII I IDYGII I
JAIRENGO_LISIGL12 JAIRENGO_LIS	UniRef90_E9G115	ATGELNELSTQQVID <mark>C</mark> ARNGNKG <mark>C</mark> IGGDT <mark>C</mark> TWMSASNVSL
Jinkef90	UniRef90_L8GL12	A G H KIL IT GIL IS M Q QII V ID C S W W D D G C G G G F P S Y A Y D Y IV I ID A P G
Jirikef90	UniRef90_W4FS67	A T G E L D L S E Q Q L V S <mark>C</mark> D K K N S G <mark>C</mark> N G G N P S P A I D W M Q Q G V
JniRef90 H2ZVJ7	UniRef90_UPI00042B4E4B	<u>V</u> T G N L <u>L</u> S L S E Q E L <u>M</u> D <mark>C</mark> D <u>T</u> N Y G <mark>C</mark> D G G Y M D Y A F E W <u>V I N N G G L</u>
JniRef90_F0XXE8	UniRef90_H3B6T8	RTGRILIETILIA EQEILLID <mark>C</mark> DVRDKA <mark>C</mark> KGGYPWTA FR <u>EILI</u> RLIGG
JniRef90	UniRef90_UPI0003D712E6	KTGQII I PI ISVQNI VID <mark>C</mark> S R P Q G N W G <mark>C</mark> G N T Y I A I H Y V M F N G G
JniRef90	UniRef90_F0XXE8	
JniRef90_UP10003EC01F7	UniRef90_UPI00042BB01C	KGKPLEDLSVQPVIACS YTHVKL
JniRef90_UP10003EC01F7		QNKALVEFSEQQLLD <mark>CV</mark> TPANG <mark>C</mark> DGGWPAY <mark>C</mark> VDYASKVGL
JniRef90_UP10003EC01F7	UniRef90_P56203	KHQQFVDVSVQELLD <mark>C</mark> ER <mark>C</mark> GNG <mark>C</mark> NGGFVWDAYLTVLNNSG
JniRef90_UP10003EC01F7	UniRef90_C3UWD9 UniRef90_D7F2M6	NKGKIL VIPILISEQQIL VID <mark>C</mark> AQDFNNHG <mark>C</mark> NPSQAFEYTMYNKGLL KTGSI IPSI ISEQQIL VIDCSTENSGCNGGVVIQWAYDYII KSCGG
JniRef90_UP10003EC01F7	UniRef90_Q5YER0	KHNDTLDLSTEQLVECDQHDYACYGGFPRDAMKYLKEGGL
JniRef90_UP10003EC01F7		A G N K L E I F S E Q N L V D C V P I C H G C A G G W P Y K A L D Y K Q A G K F Q S G K R V R L S Q Q M L M D C A G N N G C D G G F F W R V Y F W I M K N G G I I
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JniRef90_F0Y9S5 JniRef90_Q24FN2 JniRef90_Q24FN2 JniRef90_C4M1N5 JniRef90_C4M1N5 DniRef90_UP10003DE816E JniRef90_UP10003DE816E JniRef90_E5SFB4 JniRef90_E5SFB4 JniRef90_C8CBX9 JniRef90_C8CBX9 JniRef90_C8CBX9 JniRef90_Q8BM88 JniRef90_Q8BM88 JniRef90_Q8BM88 JniRef90_Q23FQ5 JniRef90_Q23FQ5 JniRef90_Q23FQ5 JniRef90_E1Z2M0 JniRef90_E1Z2M0 JniRef90_E1Z2M0 JniRef90_K1QAY3 RTNNTEQFSPQDIVECSYSQGCCCC		LII N N I Q K F S P Q Q I V S C S Y S Q G C D G G F P Y L A G K Y V Q D F G V Q N K V L V D F S E Q Q L V D C G Y Q S E G C N G G F S F F T D Y A S K V G L
JniRef90_F0Y9S5 JniRef90_Q24FN2 JniRef90_Q24FN2 JniRef90_C4M1N5 JniRef90_C4M1N5 DniRef90_UP10003DE816E JniRef90_UP10003DE816E JniRef90_E5SFB4 JniRef90_E5SFB4 JniRef90_C8CBX9 JniRef90_C8CBX9 JniRef90_C8CBX9 JniRef90_Q8BM88 JniRef90_Q8BM88 JniRef90_Q8BM88 JniRef90_Q23FQ5 JniRef90_Q23FQ5 JniRef90_Q23FQ5 JniRef90_E1Z2M0 JniRef90_E1Z2M0 JniRef90_E1Z2M0 JniRef90_K1QAY3 RTNNTEQFSPQDIVECSYSQGCCCC	UniRef90_K7J8W5	SNKTLRAFSVQEMID <mark>C</mark> AGNSNF <mark>GC</mark> EGGDCCDWLLVSKTEL
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JUNIRE190_K4WEADO	UniRef90_Q24FN2	RNNSLALYSEQELVDCTYYNYGCQGGWPSVAYRYIKDQGI
JniRef90	UniRef90_R4WEA6 UniRef90_C4M1N5	K D G K L V G L S E Q N L V D C S K S Y G N N G C Q M D N S F N Y I I D N G G I D Y N L T V D L S E Q Q L D C C E N N G C E G G S M E R S F R C M N R T K G V
JRIKEF90_C8CBX9 JRIKEF90_F7EY12 JRIKEF90_Q8BM88 JRIKEF90_Q23FQ5 JRIKEF90_Q23FQ5 JRIKEF90_W12 JRIKEF90_W12 JRIKEF90_W12 JRIKEF90_W12 JRIKEF90_W13 JRIKEF90_W10004423A41 JRIKEFPAN WN WN WN WN WN WN WN WN WN WN WN WN WN	UniRef90_UPI0003DE816E	AFGKNI SLSEQQL VDCAGAFNNFGCNGGLPSR
H Y E Q H F E L S V Q E V L D C D R C G K C K G G F V W D A F L T L R Q R G L J D Y L S V Q Q V I D C S F N N S G C L G G S P L C A L R W E T Q L K L J D X I R K P G L D Y L S V Q Q V I D C S F N N S G C L G G S P L C A L R W E T Q L K L J D X I R K P G L D Y L S V Q Q V I D C S F N N S G C L G G S P L C A L R W E T Q L K L J D X I R F S E Q Q L L D C A R Q A G F D T Y G C D G A Y F K Y A I K Y G I J R R G I D X I S V Q E L L D C D R C G D G G F P Y L I G G K Y A E D F G L J D X I R F G I J R F G I	UniRef90_E5SFB4 UniRef90_C8CBX9	K F G D L L I S L S E Q Q I L I D C D K L N R G C R G G Q P L K A Y H E II L R M S G K Y N N L T S F S E K Q L M D C S T S Y G N H G C G I M D N A F R Y I F A N R D
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JNIRef90_Q94714	UniRef90_Q23VA1	RNNTLQQYSEQEL VDCTNNQYGCGGGWAYNALVYMQRKGU
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JNIRef90_Q7RRE8 RKNQKVISLISEQQLVIDCAQNNFGCDGGLLIPYAFEDLIDMNG JNIRef90_UP10003340FAC EQRTSVEVSVQQLVDCDRCGGGGCTGGFIVWDAFMTVLNYGL	UniRef90_UPI0004423A41	NQNIQRSILSVQELIDCTYPGGCMGGYVWDALLYVFNNTGL
NINCOLO ENCORO EN LA CIVIA VICIA E COMONIDA DA NAVA A CONTRA MANAVARERO CO	UniRef90_Q7RRE8 UniRef90_UPI0003340FAC	RKNQK V S L SEQQ LV DCAQNNFGCDGG LL PYAFED LIDMNG FORTS V E V S V QQ LV DCDRCGGGCTGGE V WDAFMTVLNVG
JIIINCEISU_ESCUPI NICUVIAIVISILIS E QIMISIVID UNIXINIXAU IGUPILLA WQXMEERGG	UniRef90_E9G0F1	KTGVAVSLSEQMSVDCDNYNYACTGGDFTLAWQYMEERGG

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UniRef90_K7KXR3
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June	UniRef90_T1GHQ4	FRVALKNGPLSVAIDASPRSFSFYSHGVYYEPTCKNDDHA
JARR890 E7PA09		A A F V F K H G P L S I I G V D A S T W Q S Y A G G I M S Y C P Q D Q I D H G
JARREND RYTATION CO205001 JARREND STANDARD RYTATION CO205001 JAR	UniRef90_E7FA09	MMSAIL VIDEGPILVVI VIDAILISWODYILIGGILLIQHH <mark>C</mark> SSHKANHA
JAMES JAME	UniRef90_R7TA10	KILTI A TIVIG PIVIA IVIT MD A S S P Y F R Y Y R H G V L VID P E C S S N W K D K D A IVIA NILIGEN S VIA ILDA TILTS E E IV K S G V V D D P G C T O M V N L
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1888690 188960 189960	UniRef90_H2UT61	MMGHLVKHGPLSVVVDALSWQDYLGGIIQYH <mark>C</mark> SSKRSNHA
All	UniRef90_B3L9I5	L TRALNEVGPVSVNVGVT DDFSFYDGGIFNGTCTEELNHS
A		LLEVVAQQPVTVLIATNENFVNYKGGIFGSGPCGPQLTHA
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A	UniRef90_I7FIQ6 UniRef90_U3K3U8	LLKAVANQPIVISIVIAI DAGGSDFQFYSEGIVIFTGSCGTELDHG MMRMLVISWGPLAVITVDAIVISWODYI IGGI I OYHCSSGRANHA
Junkers Dan State Dan St	UniRef90_E1BPI9	K M A E A L L A L G P L I V V V D A M S W Q D Y L G G I I I Q H H C S S G E A N H
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Jamesego D-PiduyaDybey Ce Jamesego M-PiduyaDybey UniRef90_D8RYI4	LKKAVAHQPVSVMIDAGCPAFKFYKSGILTSSCGTDLNHA	
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JAIRGERGO GATEKLB JAIRGERGO JAYENGA JAIRGERGO JAY	UniRef90 F0WJS8	FVRALSAQPLAVGVAAGNREWKQYKŚGVLSTCSTSELDHA
Jankelgo Josepha Jankel	UniRef90_UPI0003D0B7CE UniRef90_G1PKL8	MAKAL LITF GPL VGI VD AVS WQD YLIGGI I QHHCS S G KANH
Jankelgo Josepha Jankel	UniRef90_Q94504	LAAKVTQGPTSVAI DASNQSFQLYVSGIYNEPACSST
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Dinkef90_K1QAY3	UniRef90_F7EY12	A E HLALK G PLT V TI N Q A LLK T Y R K G V T R P D D C D P N Q V D H S
Dinkef90_K1QAY3	UniRef90_Q8BM88 UniRef90_Q23FQ5	E M A R A L L S F G P L V V I V D A M S W Q D Y L G G I I Q H H C S S G E A N H V K A A L S Q G P L S V T V D A S T W S S Y S G G II F N G C N S N I O I N H A V
JniRef90_Q23VA1 JniRef90_F0Y672 A A A L A A T G P L S V V L N A Q K L Q F Y K K G V Y S P M L C S K D K L D H A JniRef90_Q94714 L A Q T I Q E R T V A V A V D A N P W Q F Y R S G V L S K C T K N L N H G V JniRef90_UP10004423A41 A E V V A S Q G P V T A L M N K K F C Q H Y Q K G M S E E D C D P N W L D H A JniRef90_Q7RRE8 K E A I Q Y L G P I T I A V G V A D D F E S Y S G G I F D G E C T S Y A N H A JniRef90_UP10003340FAC A Q Y L A I H G P I T V T I N S K L L Q Q Y R K G V I K P T P D T C D P R F V N	OTIINEI90_L IZZIVIO	
JniRef90_Q23VA1 JniRef90_F0Y672 A A A L A A T G P L S V V L N A Q K L Q F Y K K G V Y S P M L C S K D K L D H A JniRef90_Q94714 L A Q T I Q E R T V A V A V D A N P W Q F Y R S G V L S K C T K N L N H G V JniRef90_UP10004423A41 A E V V A S Q G P V T A L M N K K F C Q H Y Q K G M S E E D C D P N W L D H A JniRef90_Q7RRE8 K E A I Q Y L G P I T I A V G V A D D F E S Y S G G I F D G E C T S Y A N H A JniRef90_UP10003340FAC A Q Y L A I H G P I T V T I N S K L L Q Q Y R K G V I K P T P D T C D P R F V N	UniRef90_K1QAY3 UniRef90_UPI00038BFE29	K
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JNIKETYU_Q/KKE8	UniRef90_UPI0004423A41	A E V V A S Q G P V T A L M N K K F C Q H Y Q K G L M S E E D C D P N WL D H A
JniRef90_E9G0F1 SMTYLQNSGPLPTAMKVLDSFFHYTSGVYSDPACYDINHA	UniRef90_Q7RRE8	KEAII QYILIGPII TII IAIVIGIVIA DDFESYSGGII FDGECTSYANHA AQYILIAII HGPII TVITI NSKII IQQYRKGIVI KPTPDTCDPRFIVN
	UniRef90_E9G0F1	S M T Y L Q N S G P L P T A M K V L D S F F H Y T S G V Y S D P A C Y D I N H A

	470	000
UniRef90_K7KXR3 UniRef90_F4PGM8 UniRef90_G7YW57 UniRef90_K3ZLF6	SMV V ENGT PY WI I KNS WGEHWGEKGY LRLRRGVN MVTTVGYGTAY WLIKNS WGET WGEGGYLRLE	200 <mark>C</mark> C C
UniRef90_A1XG96 UniRef90_S5MK26 UniRef90_T1GHQ4 UniRef90_Q64F55 UniRef90_A0A024T9A5 UniRef90_E7FA09 UniRef90_E7TA10 UniRef90_UP10003C28603	V L A V G Y G Q D Y W L V K N S W S N Y W G N D G Y I L M S A K D N N V L I V G F D D P Y W I I K N S W T A N W G E E G Y I R V A K G S N Q V I A V G Y D A S S I K I R N S W S A N W G E A G H I R L K R G G A G N G T V L I T G Y D T P Y W I V R N S W G T S W G D D G Y A Y I K I G N D V	
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UniRef90_V5GS19 UniRef90_I7FIQ6 UniRef90_U3K3U8 UniRef90_E1BPI9 UniRef90_A9QXJ6 UniRef90_C3TWW7 UniRef90_D8RYI4 UniRef90_T0R765 UniRef90_Q231X3 UniRef90_F0WJS8 UniRef90_UPI0003D0B7CE UniRef90_G1PKL8	VAI VGYGTKYWIVKNSWGEEWGEKGYIRMKRGISEKEGL VLITGFDRPYWIVQNSWGPTWGIDGYVRVKIGSN VAVLVTGSIPYWIVRNSWGTSWGIDGYVRVKMG GNV VLLVGYNMPYWLIKNSWGENWGEKGYVRVRKKGTNE GYGVENGVPFWTFKNTWGDDWGEKGYVRVRKGTNE GYGVENGVPFWTFKNTWGDDWGEDGYFRVRQNVDACGML VTIVGYGKKYWIVKNSWGTEWGDDGYVYMQRDTGVSTGL VIAVGYGSDYFKIRNSWGTGWGERGYMRLQR GGGGQGM VLLVGFQNGTWLVKNSYGTNWGENGYIRLKNG NT VLAVGYGEQFFKIKNSWGTWGDNGFMYLKRR NGSESA AVLVTGFIPYWIVRNSWGRTWGIDGYARIKIG GNI	SOCO SOCO SOCO SOCO SOCO SOCO SOCO SOCO
UniRef90_Q94504 UniRef90_M4CMP1 UniRef90_K1QS82 UniRef90_J9ICC4 UniRef90_UPI00042C1A37 UniRef90_K7FPQ2 UniRef90_B4QXN0 UniRef90_H3H0S9 UniRef90_P46102 UniRef90_W4FQ99 UniRef90_G6CTE7 UniRef90_E9G115 UniRef90_L1JSA4	L T G F D R P Y W V R N S W G R T W G K D G Y A H V K G S N V V L L V G F G T H Y W I K N S Y G T E W G E S G Y F K L A R N A N N M V V A V G Y D A T S L K R N S W G E N W G E E G Y H L K R V L L V G Y G Q Y Y W V R N S W G P N W G E G G Y R K R N K A G D D G F V I A V G Y N D D Y F K K N S W G T E W G D K G Y Y L K R G V T E K G T	CCC CCCC
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UniRef90_F0XXE8 UniRef90_A0A024T8Y5 UniRef90_UPI00042BB01C UniRef90_Q23H01 UniRef90_Q23VA2 UniRef90_P56203 UniRef90_C3UWD9	V L L V G Y G T D Y W K V K N S W A S S W G E N G Y F R V V R N V V A V G Y D E K S Y K L R N S W G D T W G E R G Y L R L Q R G V G A V L I T G N P P Y W I V R N S W G S S W G V D G Y A H V K M G G N L V L A V G Y D H D N W I V K N S W G P Q W G E N G Y M R L A P N N T P L L V G Y T K E N W I V K N S W G T N W G Q N G Y L L A P G N T V L L V G F G K P Y W I L K N S W G A H W G E K G Y F R L Y R G N N T	C
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UniRef90_W2KGG1 UniRef90_UPI00038714B0 UniRef90_Q23H17 UniRef90_K7J8W5 UniRef90_G4YZQ7 UniRef90_G24FN2 UniRef90_Q24FN2 UniRef90_R4WEA6	V L A V G Y D E Q N W I V K N S W G P F W G E H G Y M R L A P N N T A V Q I V G Y D P Y Y I V R N S W G P S F G D K G Y L Y I A L G S N L V V A V G Y D A T S L K I R N S W G D N W G E D G Y L R L K R K A S G S G T	CCCC CCC
UniRef90_C4M1N5 UniRef90_UPI0003DE816E UniRef90_E5SFB4 UniRef90_C8CBX9 UniRef90_F7EY12	NHVVEDGVPYWIIKN HWLHWSNPYWIIKNSWGVDWGENGYFRLYRGNE A VLVVGYGTDYWF VLVVGFGOSYWIIKNSWGSDWGFFGYFRLRRGIN A	C C
UniRef90_Q8BM88 UniRef90_Q23FQ5 UniRef90_E1Z2M0 UniRef90_K1QAY3 UniRef90_UP100038BFE29 UniRef90_Q23VA1 UniRef90_F0Y672		C C C
UniRef90_Q94714 UniRef90_UPI0004423A41 UniRef90_Q7RRE8 UniRef90_UPI0003340FAC UniRef90_E9G0F1	V L V G V Q A D G A W K I R N S W G S S W G E A G H I R L A G G D T V L I V G F G E S Y W I I Q N S W G K H W G E Q G Y F R L H R G S N A V M L I G Y G E Y Y Y I I R N S W G E F W G E H G Y M R L K T N E L G T L R N H S V L L M G F P Y W I L K N S W G P N W G E E G Y F R L H R G S N A	CCCCC

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UniRef90_A0BLR4 UniRef90_V6LXG3	E A Y D W R N T T S V R D M K S G C S S W A F S T V G A A E S Y L T V V P E F W N W P E C A G A K T V R D O G S C G S C W A F S S V N A D N R C I O K
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UniRef90_G3ECL8	DEFDWRNSGITTPIKSSGTRYFEATIDGIEAAIRKEGI LPTEFDARKHWSIGDILDQGHCGSCWAFGAVESLTDRFCI LPKDFDWRNVNYVSPVRNQGGCGSCYAFGSMGMAEARVRL LPPSFDWRDVGYIGPVRDQAGCGSCYAFGAIAAAEGTYNR PDHRDYRDKFYLLPPKDQGRCGSCWAFASVANFEFIFRR FPDSRDYRGKYTLLPPKDQGRCGSCWAFATIANFEYFAKI VPASWDWRQHGAVTPAREQGTCESCWAFSAVGAVEGANAL LPGAVDWRRGGLVTSVKNQGECGSCWAFSAVGAVEGANAL LPGAVDWRRGGLVTSVKNQGECGSCWSFSATGALEGQHFR
UniRef90_L1LAL5 UniRef90_Q25644	A T F T WQ D K G YVA P A L N Q G C G C W G M S S T A T L E T F M A V P E Q R D Y R E WN L L L P P K D Q G M C G S C WA F A S V G N Y E A L F A K
UniRef90_D2VZV5	F P T Q F D A R E Q W C R S K N Q K N C G S C W A F S A S S V L A D R F C
UniRef90_R7VE68 UniRef90_K7MRR5	FPRKWDWRDKKVITSMKNQDS <mark>C</mark> GG <mark>C</mark> WAYAATAVLESMHAL LPDEKD <u>W</u> RKEGIVSQVKDQGN <mark>C</mark> RSSWTFRPLG
UniRef90_G0N0W5 UniRef90_UPI000383391	
UniRef90_F4WS64	I P D S I D W R L Y G A V T P I K
UniRef90_W4WVI5 UniRef90_A4FUP7	L P S K F D W R D K G V V G P V M S Q E N C G A C W A F S T V G V A E S M Y A I A E W D W R K K G A V T E V K N Q G M C G S C W A F S V T G N V E G Q W F L
UniRef90_T0Q4I9	A E WD WR K K GAVT E V K N Q G M C G S C WA F S V T G N V E G Q W F L D T L D W V P S M C V Y P V Q D Q G S C F S L WA M A A I Q V A A S A H C L
JniRef90_K4B7P3	LPKEFDWSE <mark>C</mark> STIIGRII <u>L</u> DQGH <mark>C</mark> GS <mark>C</mark> WAFGAVESLSDRF <mark>C</mark> II

URREND AGCH43 K T G T [V R L S Q Q A L T D G S W C Y G N N G D D F R S V Q W M M K H G G L M M M M M M M M M M M M M M M M M			
UniRef90	UniRef90_E9HWL6 UniRef90_Q23FQ3 UniRef90_Q4UDG1 UniRef90_B8C6X9 UniRef90_P56202 UniRef90_F7F2M7 UniRef90_K5P1H0 UniRef90_W5P1H0 UniRef90_W5P1H0 UniRef90_Q4N639 UniRef90_Q4N639 UniRef90_Q3G76 UniRef90_B3JID7 UniRef90_E9G903 UniRef90_E9G903 UniRef90_B4JID7 UniRef90_B7SDF5 UniRef90_G3VEJ5 UniRef90_G7SDF5 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000388AE33 UniRef90_UPI000338991E UniRef90_UPI000328991E UniRef90_UPI0003330486 UniRef90_W4Y0Z3 UniRef90_W4Y0Z3 UniRef90_W4Y0Z3 UniRef90_UPI0003330486 UniRef90_K7WFK9	K T G T L V R L S Q Q A L I D C S W G Y G N N G C D D F R S Y Q W M K H G G L K N G T L L A L S E Q H L V D C E P Y D Y G C N G G WY T N A WY Y K N G A G L N G G WY T N A WY Y M K N G A G L N C A R Q A G G C D G T W Q C E Y F K Y A L K N Y R Y Q K D L V K F S E Q Q L M D C E P M Y T C N E G G R P S S V I S Y L K N Y R Y Q K D L V P L S E Q D L I D C D T L Y G C D G G G F V W D A F L T V L N N S G W W T N A W Y Y A L K N Y R Y Q K D D L V P L S E Q D L I D C D T L Y G C D G G G F V W D A F L T V R Y C D G G G G F V W D A F L T V R Y C D F G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G F P Y L I A G K Y T Q D F G G C D G G G G F P Y L I A G K Y T Q D F G G C G G G G F P Y L I A G K Y T Q D F G G C G G G G F P Y L I A G K Y T Q D F G G C G G G G G F P Y L I A G K Y T Q D F G G C G G G G G G G G G G G G G G G G	
UniRef90_G0N0W5	UniRef90_M7YPC6 UniRef90_E1F0Q9 UniRef90_E1F0Q9 UniRef90_UPI0002C35FDC UniRef90_E9G0E8 UniRef90_G7I7Q5 UniRef90_Q3VC9 UniRef90_Q1EIQ3 UniRef90_Q1EIQ3 UniRef90_A2DKX2 UniRef90_B8SBL3 UniRef90_WF0003F092C0 UniRef90_K3XHN5 UniRef90_H0VHB4 UniRef90_H0VHB4 UniRef90_UPI0001758502 UniRef90_WF2VL7 UniRef90_WF2VL7 UniRef90_WBYDQ5 UniRef90_S9WRT2 UniRef90_S9WRT2 UniRef90_S9WG30 UniRef90_S9WG30 UniRef90_F7F868 UniRef90_F7F868 UniRef90_WSYDQ5 UniRef90_WSYSS UniRef90_WSYSS UniRef90_WSYSS UniRef90_WSYSS UniRef90_WSYSS UniRef90_WSYSS UniRef90_WSYSS UniRef90_WSYSS UniRef90_WSYSS UniRef90_WSYSS UniRef90_WSYSS UniRef90_WYSSS	S G D A V S Y S V Q Y V L D C D R K D H G C N G G E P V N A F N F L H N T G T A N N E L I S L S E Q Q L L D C S T Q N K G C E G G L M T V A Y D F L L Q N G I Q F G K N T S L S V N D L L A C C G C G N G C D G G L P L Y A W R Y F V H H G V R T G V A V A V A V B E Q M L I D C D N S N S G C G G G D G G L P L Y A W R Y F V H H G V R T G V A V A V A V B S E Q M L I D C D M G S K G C K N G S V F S A I K F Q H V G G V K Y N M N V S L S V N D L L A C C G C G Q G C N G G Y P I A A W R Y F K H H G V Y A N N K L L S F S E Q Q I I D C A N T N P C G C G C N G G Y P I A A W R Y F K H H G V A N N K L L S F S E Q Q I I D C A N T N P C G C S C N K G H V E E A L N E M C L N D T Y Y D N S L D L S E Q E L L D C C Y S V C E G C N K G H V E E A L N E M C L N D T Y Y N K M Y L L S P Q Q M L D C A Y N E E G C G G G G F P Y L V S K Y S E D F G F M N V L S P Q Q M L D C A Y Y N E E G C G G G F P Y L V S K Y S E D F G F M N N K L S S A Q N L V D C C N Y S Q G C S G G F P Y L V S K Y S E D F G F M N N K L S S A Q N L V D C S T N K G S H G G G F M A A A A G L R T K G S L S A Q N L V D C S T N K G S H G G G F M Y D L L A C C G C G C G G G G F M Y L D N N G I L N A C C G C G C G G G G F M Y D L L A C C G C G C G G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G F M Y D L L A C C G C G C G G G G F M Y D L L A C C G C G C G G G G F M Y D L L A C C G C G C G G G G F M Y D L L A C C G C G C G G G G G G G G G M M A A F Q F A A A A A G L M T T T A N L V D C S T T N T T D T T T T T T T T T T T T T T	

	90 100 110 120
UniRef90_A9CPH3	PILE S D Y G G Y L G Q D G Y C H V D K T N L T A K L T G Y V N V T T G D E N A
UniRef90_E9HWL6 UniRef90_Q23FQ3	GSAKQYPYTATNTTCKFTSSMVGAKISTYGNLQPLNATNM VSANSYPYVGYQTRCKDTSNLPKYFPQSFKFI NRNVPD
UniRef90_Q4UDG1	CTEEEYPYKMGDYRCII IQPNTCKNKII INII ISKIVIH SILI HDKII
UniRef90_B8C6X9 UniRef90_P56202	CSEVDYPYTQSQGT <mark>C</mark> SYDM <mark>C</mark> TPVEGSIKDQIDIVPRKTNA ASEKDYPFQGKVRHRCHPKKYQKVAWLQDFIMLQNNEHRL
UniRef90_A2DJ33	MSDSDYPFKPYVGECKFDSSM AQSKFVQLTYTKNETDM VEEDCFPYTARDTQCVPKKECPRYYASDYQYFYGGCNEAL
UniRef90_F7F2M7 UniRef90_W5P1H0	VEEDCFPYTARDTQ <mark>C</mark> VPKKE <mark>C</mark> PRYYASDYQYFYGG <mark>C</mark> NEAL VEEDCEPYTGTDSPCKCERYYSSEYHYVGGEYGGCNEALM
UniRef90_A0DCA5	VEEDCFPYTGTDSPCKCFRYYSSEYHYVGGFYGGCNEALM HWESKYPYTGKAQAC AQVKGDQLRPTNYYKLNSVDA
UniRef90_H3AKB0 UniRef90_Q4N639	LETEGDYSYQAHKQA <mark>C</mark> SFSANKVAAYIINSSVDIASDEEEM CTDKEYPYIIEKKSSCTSYKCE ONSEVKEVVSIYNGN
UniRef90_Q23G76	CTDKEYPY FKKSSCTSYKCE QNSEVKEVVSLYNGN TSDYKYSYSSYQSCSFNPDKQSVEVMLDGYLKLTTNSYED
UniRef90_A8JID7 UniRef90_F2CPT6	A Q E A D Y P Y L A Q N S W C R G P T P T P V A R F S D F V N V P P R D E S A L L Q P E A A Y A Y S G Q Q G A C R S K P N S D A S V G A P R W A R L Y G D E G A
UniRef90_E9G903	A A E S S Y A Y T A V N G T C R F S M S I G A Q V S S S A Y V E W V G T V D K M
UniRef90_I3M1Y8 UniRef90_A7SDR5	A S E K D Y P F Q G H T R A H M C Q K K F K K V A W I Q D F I M L Q E N E Q T I L T E Q C Y P Y Y A K Q Y T C R L T A N T T D C H A K S A Y K L P A K N V E A L
UniRef90_G3VEJ5 UniRef90_UPI000388AE33	LAEEQDYPYRPQLSKG <mark>C</mark> QKK KKRAWIHDFLMLHKEENYM MEEE <mark>C</mark> FPYTATDSP <mark>C</mark> TPKR <u>NC</u> YHY <u>YA</u> SEYHY <u>F</u> YGG <mark>C</mark> NEAL
UniRef90_C5L4S6	T S E K N Y P Y E A S K S R D Y N E P <mark>C</mark> K P G V T G Y T T N G G D Y Q G L
UniRef90_K1QH95 UniRef90_B1NHV8	ETWEDYWYCSGCOKKETNGSALVRTKAKSVGLVKGDK
UniRef90_V4AEK4	LCTNVT YHHQDQLCNKDTCTPLAMVNGTGFIPEGDEDA
UniRef90_T1KCS9 UniRef90_T1J1Q3	TTECLPYVSGGPSCPKKCTNGSALVRTKAKSVGLVKGDKLCTNVT YHHQDQLCNKDTCTPLAMVNGTGFLPEGDEDASLDEDYGAYLGQDGKCHDSKVPKVVKLTGFVNVTSGSAEATSENDYPLTDVQATCKAVESATRLQLEKNFTCNSYVGDEEVPESTYPYLAKKGDCRLNKKLTNIVIYDKKVFYAADEEHV
UniRef90_W4ZI04	V P E S T Y P Y T A K K G D C R T N K K T T N I V I Y D K K V F Y A A D E E H V L A S E K D Y P F R G D V R S H R C K K Y K K V A W I Q D F M M L Q K N E Q A L
UniRef90_UPI000328991E UniRef90_T0R957	CTODAYPYSNOFTSTETCKTTCSPVKI PETALIGKSVGEKE
UniRef90_D8QMM0 UniRef90_H2YU38	T T E K L Y P Y T G T L G Q C K P L P S S L V T L S G V E R L Y S S S D D T E L E P E K D Y P Y K G A G E K C N L L K S D L K V F L N D S V V L P K D E A K L
UniRef90_W4Y0Z3	CLDGSYHSGSAPNIVICN NASCKAIVIASCNIVIGKSIVITQGNESA
UniRef90_UPI0003330486 UniRef90_K7WFK9	A S E K D Y P F E G A K L H R C L A K K Y K T V A W Q D F I M L P S D E Q E I A T E A T V P Y T A T N N P Y N P S I A T P Y R S I A W G Y V K P D G G T V A E
UniRef90_M7YPC6	T S E E R Y P Y A G F Q G K <mark>C</mark> DIVID KIL IF D H Q A SIVIK G F K AIVIP P N N E A Q
UniRef90_E1F0Q9 UniRef90_I3WTB2	VLTSCVEYTAGDDKFCPQKCDDGSAVENIVATSGAKSGSA TTETNYPYEEAQNVC KTEQPAAVTINGYE
UniRef90_UPI0002C35FDC	VIT F K C D P Y F D Q T G C S H P G C F P A Y P T P K C V R K C V D G N Q M WII I
UniRef90_E9G0E8 UniRef90_G7I7Q5	A M T L A S Y P Y H T S V S C K F N S A A V A V N V S T Y D W T Y P Y P N A T V P S E V D Y P Y K A F Q G Q C H N D L T P S
UniRef90_Q93VC9	<u>V</u> T
UniRef90_O17255 UniRef90_Q1EIQ3	VIEEOSYPYKAREGR <mark>C</mark> ORPNAKRYGII IKDII I <mark>C</mark> OII IYPPNGDKII IR
UniRef90_UPI00034F8C63 UniRef90 A2DKX2	UVTTEDSYPLGIISRGN <mark>C</mark> NSSTFKGRKIIKEYWHYSFMDENI
UniRef90_D8SBL3	VVTTEDSYPLGISRGNCNSSTFKGRKIKEYWHYSFMDENI GLESDYPYKSESMGYCEFDPSKGVTKALAVNYTRDEADMK TTDSKYPYTGVKSSCKPFVCHTNDVSMSQLGTVPGTSDSF
UniRef90_UPI0003F092C0 UniRef90 K3XHN5	IVIE E I CILIP Y I A Q D G P CIVIS EII IK C K R H Y G I K Y R Y F Y G G C N E AIL I
UniRef90_H0VHB4	VTDECDPYCEKKCKVRNQVWEEKKHFSVNAYRIKSDPHDI DSETSYPYKAVVGHKQTSCSPWTSQGS PPKNLEK CAAAEYFPYEARARPCRSGFRDLPPRDPGA
UniRef90_U6KWI9 UniRef90_M7ZVL7	C DIVID K QIL IF D N E IVISIVIK G F K AIVIP P N D E H Q
UniRef90_UPI0001758502 UniRef90 C3XXE8	NYDQDYRYESAPGSCRFKPNKPTVTFKKYAYLAEISEEDL VPKKDYPYTGKDGECRFFTNTTDSVHLTNYTCRGYENHED
UniRef90_A8D0K2	VEESCNPYRGADGPCKTCPRHYVGNYRYVGGYYGGCNEEL VEEWLYPYTGDSGTCKTDSTFDVVAKUSGFVDVPKDDQNA
UniRef90_S9WRT2 UniRef90_W8YDQ5	VIDECCYSYSTGNCSGII ICSDANNRII VIKII ITGYTDII ITOKPAAII I
UniRef90_S9WG30 UniRef90_C9DFC0	A E E WS Y P Y Y G D S G V C K S V S P F E M A K V K G Y V E V A K D D Q E A
UniRef90_F7F868	A E E W S Y P Y Y G D S G V C K S V S P F E M L A K V K G Y V E V A K D D Q E A T T E T N Y P Y Q Q L Q S V C N T E Q L S S P A V K I S G Y K I V E S S E S A L A S E K D Y P F Q G K V R Q G C H A K K Y H K V A W L Q D F L M L Q N S E H R L
UniRef90_V9LJJ6 UniRef90_R7TF36	DSEIFYPYKGMDTEVCKYNLHYRAGNCTGFKTIPTGNEAA VDESCDPYVGEDRKCKSTSCSRRYATRYRYVYYGACNEQE
UniRef90_D2VZ81	TIA E Q C D P Y T G T P H K C NIL IN Q A C S T R Q Y W T N Y R Y T G G Y Y E N M
UniRef90_K3ZN05 UniRef90_Q26091	LTWAPLYPYIGMSGMCQRFKPAAVRLRSYRWVVP NEVS CLNEEYKYRAIDDLFCLNYRCGKKVTLSSVGGVKENELIL
UniRef90_A9NKL4 UniRef90_A0A022S299	VIT A F C D P Y CIVIK O C K D F N O N W G N S K R F S A T A Y R II IT S K P Y D II I
UniRef90_V4B8Z0	I E D S C F T Y K A K D V K C I T C P R Y Y T R D Y Y Y V G G F Y G G C N E A L
UniRef90_A0BLR4 UniRef90_V6LXG3	TIVE SIVIY PYTAKFSPC KREGGPYTIINGNEDIVIDD VIKNSCVPYTSGDSSKDGKCPKKCKFIIKATKTESVCSDEES
UniRef90_Q94715	V S S T N Y P Y V A K N Q T C K Q S R N G T Y F I N G Y S F V G G S Q S N
UniRef90_UPI0003BCEDD7 UniRef90_C4M277	DSEESYPYLGTDDQKCHYDPQYNSVNDTGFTDIKSGSEHA MKEEDYPETSEKGLCQYNSTRLFGKVNKRRYLSVFNDDEL
UniRef90_A9S9A1	VIISKCDPYEDOKGCGHPGCYPLYDIPKCEKRCVIDDEPEEIL
UniRef90_UPI0003599906 UniRef90_B8FIK5	V LEK CNPYTGKNGK CQTDPK CPRHYFTGYRY I GGYYNEAL I TETLYPYSDDDSQD CPFETYPPT I GFQSWHRIGCQD I DAVCGEEYPYKAHD DFFCLNYRCTFTGTFHYI GEAKPNE
UniRef90_L0HP22 UniRef90_Q0GZL5	VCGEEYPYKAHD DFFCLNYRCTFTGTFHYIGEAKPNE CLGDEYPYKGHDDFFCLNYRCSFLGRMHFLGDVKPNE
UniRef90_I1QRC2	SPAGSYPPYEAKDRA <mark>C</mark> RRNTP V A VV KMDGA V D V PAS EAA
UniRef90_A0A044SUF8 UniRef90_G3ECL8	A Q E S K Y P Y V H T V Q Q C K W R S N G T V T V N D Y V L T P Q G D E L A L D T E K S Y P Y E A E D D K C R Y N P E N S G A T D K G F V D I P E G D E E A L
UniRef90_L1LAL5	DTEKSYPYEAEDDKCRYNPENSGATDKGFVDIPEGDEEAL CTEDEYPYTGQKGACDDKKCKTETLINEIAFIGYKGAKDF CFGDNYEYKAHDDFFCLSYRCAYRSKLKKLGNAYPYELIM
UniRef90_Q25644 UniRef90_D2VZV5	VSEACVPYPACNVKSCGVPGQKSPFYRAGSARKLEGMLDI LSEKLYPTVNKDQKCYLKKSKPDEVHVAAYSCQNFGSEES
UniRef90_R7VE68 UniRef90_K7MRR5	I S E K L Y P T V N K D Q K C Y I K K S K P D E V H V A A Y S C Q N F G S E E S D T E E A Y P Y T G K D G V Y K F A A K N V A I Q V I D S I N I T L G A E D E L
UniRef90_G0N0W5	A S G S N Y P Y E E F R A N T T G N C V A D Q V D T V I Y R F D P D Y A E E D I
UniRef90_UPI000383391D UniRef90_F4WS64	VEEDCFPYTGQDSPCTFKRSCYHYYTSEYHYFYGGCNEAL PTEEDYGDYLGQDGYCHINNVTLTAKITGFVNVPRSVEAL
UniRef90_W4WVI5	I IS EII ID V P P E G E RII ID A TII IS N T S A E A N T N R IVI <mark>C</mark> E S EIVID A E T EII
UniRef90_A4FUP7 UniRef90_T0Q4I9	LETEDDY GY QGHVQT CNFS A QMA KVY INDSVELSRNENKI CS GVKLPY T GY A P T CS DNS QC A G T LS F DVN E V A E K S G E A L
UniRef90_K4B7P3	VSEKCDPYFDN GCSHPGCWSKSKHFGVNAYM SSNPYSI

	130 140 150 160
UniRef90_A9CPH3 UniRef90_E9HWL6	LKLAIKHGPISVAIDASQKTFSFYSNGVYYDPECKNTDHA QLAVQSNGPISVAITVTNSFFYYSGGTYNDVACDNPINHA
UniRef90_Q23FQ3	UEDYLEKT GPF QVSI HVSKEMSFYKEGI FDGE CSQRENHS LKEALKKQPVT AAMVASDPMFQFYSSGLYTDTCLPDI NHG AQYLATYGPI TVTI NMKPLQLYRKGVI TPTT CDPQL VDHS AVTVATHGV LACGYDASAADFEWYSSCVYDNPDCDPWGI C
UniRef90_Q4UDG1 UniRef90_B8C6X9	LKEALKKQPVTAAMVASDPMFQFYSSGLYTDTCLPDINHG
UniRef90_P56202 UniRef90_A2DJ33	A Q Y L A T Y G P I T V T L N M K P L Q L Y R K G V L T P T T C D P Q L V D H S A V T V A T H G V L A C G Y D A S A A D F E W Y S S C V Y D N P D C D P W G L C
UniRef90_F7F2M7	MKLEL VRHGPMAVAFEVYNDFLHYREGVYHHTGFELTNHA
UniRef90_W5P1H0 UniRef90_A0DCA5	LIS Q AL K Q R P A V V C F N A S K L Q S Y T K G V I T A Q D C G G N T N N Y C
UniRef90_H3AKB0 UniRef90_Q4N639	
UniRef90_Q23G76 UniRef90_A8JID7	I MVALAT VGPLAVA VDASK WHDY EGGVFDGCDYT NVN HAMEAVYLHGPVAVLMNAARVPFKFYSEGVYHNEECGEDPDS
UniRef90_F2CPT6	LQELAVSQPVAVALEVSDPDFRHYRRGVYSSS <mark>C</mark> GQRLNHA
UniRef90_E9G903 UniRef90_I3M1Y8	AWTILIA I QUEILII IVII II IN WKEILIQUI KN UVIELELI <mark>U</mark> DEKIV VIN US
UniRef90_A7SDR5 UniRef90_G3VEJ5	QTDIMNNGPVEADFTIFQDFYAYRSGIYVHATGKQLGGHA AQYLAEKGPLTVTINSRLLKSYIRGVIKPGNNCDPKYVDH
UniRef90_UPI000388AE33 UniRef90_C5L4S6	MKILIEIL VI IY GPMAIVIA E EIVIY SI) E MILIY R GGILIY H H I GILIO D E E N P
UniRef90_K1QH95	LSAVAFQGPVATLIDGTTPPFQHYKSGVITGVCDKVTLHI AEQLIKLGPLSVALNAELLQFYHHGIFDPPSCDPKNLDHA MQNELYSRGPFEAAFSVYEDFKSYKSGVYHHITGKMLGGH
UniRef90_B1NHV8 UniRef90_V4AEK4	MILIE AII LIKT PILIMIVIA M D A S Q P S F EILIY Q A GII IY S D T K C S P D HILIS
UniRef90_T1KCS9 UniRef90_T1J1Q3	A MII IKIL LIA D H G PIL VIA AIVID A T T W Q D Y ILIG GII I IQ Y H <mark>C</mark> G GII IT N H A
UniRef90_W4ZI04 UniRef90_UPI000328991E	M P A ML Y N Q G P L S S V D A E S W Q Y Y L G G Q Y H C T P T Y L N H A A R H L A T H G P T V S N K Q L L Q Q Y Q R G V K A T P A T C D P R L V D
UniRef90_T0R957 UniRef90_D8QMM0	LETNLRRQPVAATMAASSAVFKNYQSGIITSGCDTEIDHM LLNAVAKQPVAVIVDGTTPQFINYRSGIYTGPTTTSLLVV
UniRef90_H2YU38	A A W L A K N G P
UniRef90_W4Y0Z3 UniRef90_UPI0003330486	LAEAVYFTPVVVAIDASQPSFQLYISGVYSDPNCSSTDHS ASYLATHGPLTVTINMKMLQHYQKGVIAKPTMCDPQHVDHC
UniRef90_K7WFK9 UniRef90_M7YPC6	MKQAMCKHGPLTVAVRVTPAFQGYVSGVFNEQAQGPINHG LAIAVAMQPVTAYLDASGFEFQFYSGGIYRGPCSANVNHA
UniRef90_E1F0Q9 UniRef90_I3WTB2	I D V L L A H G P V V A T F N V A Q D F M Y Y K S G V Y Q H R W G V W L G G H A
UniRef90_UPI0002C35FDC UniRef90_E9G0E8	MAEVYKNGPVEVAFTVYEDFAYYKSGVYKHIKGDVLGGHA
UniRef90_G7I7Q5	TMTYLQSFGPLPTTIKVLDSLFNYASGVYSDPACNDVDHA LLQVVAQQPIASSVATGTDFRNFKGSGIFEGSCSNKTNHV MAEVYKNGPVEVAFTVYEDFAHYKSGVYKHLTGTNLGGHA
UniRef90_Q93VC9 UniRef90_Q17255	RA <u>HI</u> IIIFGI <u>GYFRMRS</u> PPSFFHYKIGII <u>Y</u> NPE <mark>C</mark> GNANEARS
UniRef90_Q1EIQ3 UniRef90_UPI00034F8C63	I IR RIV I IA H H G PIV I VIKIVIN A Q P WII IN Y II IG GII I I Q R G C D G A T II ID H A
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UniRef90_UPI0003F092C0 UniRef90_K3XHN5	MKI ELVKNGPMAVAFMVYDDFMSYQGGIYHHTGFEITNHA MSEVYI NGPVEVAFTVYFDFAHYKSGVYKHITGGMMGGHA
UniRef90_H0VHB4 UniRef90_U6KWI9	IKNTTRT <mark>CLQTKYSNTSTVLL</mark> YFSHGLFLDPSCTQNVNHG LRGALAGAPVSVAVQGDQLGFQFYKSGIFDGS <mark>C</mark> GEELNHG
UniRef90_M7ZVL7	II IAII IAIVIA MOPIVITIVIYII IDASAWEEOEYTGGII IYRGP <mark>C</mark> SSDAARIVI
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UniRef90_A8D0K2 UniRef90_S9WRT2	MRLALVRGGPVAVGFEVYPDFQMYQGGVYRHTGVHRVTGY LMDALAFKGP LAVSVDASHWSSYSGGIFDGCSYAKNNHA
UniRef90_W8YDQ5 UniRef90_S9WG30	K Q WILATK G P V S A C F N V Y E D F Y Y Y Q G G V Y R H I K G A S L G G H C I M F A V A Y F G P L S V S V D A T Y W O S Y A G G L F N G C N Y S L N L T O
UniRef90_C9DFC0 UniRef90_F7F868	LQ AVANQPI SVGI AANG
UniRef90_V9LJJ6 UniRef90_R7TF36	LAVLATVGPVSVGLDGSHFSFQFYRTGVYHNT
UniRef90_D2VZ81	QLDVLKYGPLSVSMEVYNDLFNYHSGIYRHVSSSSELTNHV
UniRef90_K3ZN05 UniRef90_Q26091	A Q Y L A T Y G P I T V T I N M K P L Q L Y R K G V I T P T T C D P Q L V D H S L A V L A T V G P V S V G L D G S H F S F Q F Y R T G V Y H N T M K L A L Q R G P L S V S F M V Y D D F M H Y K S G V Y R H Y N P F E I T N H A Q L D V L K Y G P L S V S M E V Y N D L F N Y H S G I Y R H V S S S E L T N H V L M Q A V A Q Q P V E H Y Y G G V Y D G R C F W N G V Y I G G A C G T A P N H A P L N E V G P V S V N V G V T D D F A F Y A G G I F N G T C T E E L N H S M A E V Y T K G P V E V D F L V Y E D F A H Y K S G V Y K Y I T G D F L G G H A M A E I F T N G P V E V S F T V Y E D F A H Y K S G V Y K H V T G D E M G G H A M R I E V A K Y G P V A V S F O V Y P D F O H Y K S G V Y H H N P W E I T N H V
UniRef90_A9NKL4 UniRef90_A0A022S299	M A E V Y I K G P V E V D F L V Y E D F A H Y K S G V Y K Y I T G D F L G G H A M A E I F T N G P V E V S F T V Y E D F A H Y K S G V Y K H V T G D E M G G H A
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UniRef90_V6LXG3 UniRef90_Q94715	II IKIVIAII IT K GIL VIQT A F TIVIF S D F M Y Y F G GIL IY F H T S G Y F F G G H A
UniRef90_UPI0003BCEDD7 UniRef90_C4M277	LQYYLNNYPI SVGVEASNWQFY RSGLFSNCSSNGTNHY LMKAVAVGPI SVALDAGHESFQFYQSGLYYEPACSSEDHG
UniRef90_A9S9A1	LEVIKNTPLIVNIDMPPTMPYYDGEGIFENIEE <mark>C</mark> SQSSPG MAELFTNGPLEVAFDVFEDFAHYKTGVYKHLYGGYIGGHA
UniRef90_UPI0003599906 UniRef90_B8FIK5	MMQAIHQNGPIAINFEVYRDLVSYKSGVYHHNPSELTNHV IKAAIMLYGVVDAAVYATSAFDAYDSGVYEDDNNGCDAWG
UniRef90_L0HP22 UniRef90_Q0GZL5	LIMALNEVGPVTTAVGVTNDFVLYSGGTFDGPCNPVLNHA LIMALNYVGPVTTAVAVSDEFVLYSGGVFDGECGPELNHA
UniRef90_I1QRC2 UniRef90_A0A044SUF8	
UniRef90_G3ECL8 UniRef90_L1LAL5	QNAVAKL GPVAVAI HATQPDFRFYKSGIYSSSNCGEPNHAMHALATVGPVSI AI DASSEKFQFYKKGVFYNPHCSSTLQNAWGVSI EATQS NHGAFSI DVDI PREFTHYESGVFNTTGPKYI RHASLNEVGPITVNVGV SDEFVLYSGGI FDGTCASELNHS MADLKANGPI QVAMGVY RDFYSYKSGVY HHVSGRYVGGHA LLRYI SSVGPVAVSVDARMWI NYQGGI I QHHCGEVSSNHA KQAVAFVRPVSVAFEVSKDFQFYNNGVYTNTI CGSMPMDV MENMYYNHI PTAVYFRVGEKFEWYNSGVLQSEDCFEMNPA MKLELVHHGPMAVAFEVYNDFMLYKEGI YHHTGLQDTNHA
UniRef90_Q25644	SENEVGPITVNVGV SDEFVLYSGGIFDGT CASELNHS
UniRef90_D2VZV5 UniRef90_R7VE68	LLRY SVGPVAVSVDARMWINYQGGI IQHHCGEVSSNHA
UniRef90_K7MRR5 UniRef90_G0N0W5	MENMYYNHUPTAVYFRVGEKFEWYNSGVLQSED <mark>C</mark> FEMNPA
UniRef90_UPI000383391D UniRef90_F4WS64	MKLELVHHGPMAVAFEVYNDFMLYKEGIYHHTGLQDTNHA KIAIAKHGPISVAIDASHKTFSFYSHGVYYDPACGNTDHA LTLLVTHGPVAVAVNAISWQNYLGGILQYNCDGSFNSLNH
UniRef90_W4WVI5 UniRef90_A4FUP7	LTLLVTHGPVAVAVNAISWQNYLGGIIQYNCOGSFNSLNH AAWLAQKGPISVAINAFGMOFYRHGIAHPFRPICSPWFID
UniRef90_T0Q4I9 UniRef90_K4B7P3	AAWLAQKGPISVAINAFGMQFYRHGLAHPFRPLCSPWFID LEKQVRVQPVLVTVSASSDTWFLYTGGLLTSCPQTRWALP MTEVYKNGPVEVALNVYEDFAHYKSGVYKHVTGEYLGGHA
UIIII\GI3U_N4D1F3	IN I L W I K IN G F W L IV IA L IN W I E D F A IT I K G G IV IT K IT W I G E T I L G G H A

	470
UniRef90_A9CPH3	170 180 190 200 V L A V G H G N S Y W L V K T
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UniRef90_W5P1H0 UniRef90_A0DCA5	VLLVGYGTDYWIVKNSWGTSWGEDGYFRIRRGTDE GLLVGKTSEYWLIQGSFGKTWGQDGYVHIAYGDNC
UniRef90_H3AKB0 UniRef90_Q4N639	VLLVGYGVPFWAIKNSWGEDWGEQGYYYLYRGSN VVVVVGHGYNYWIVKNSWGKAWGEKGYFRIL
UniRef90_Q23G76	V
UniRef90_A8JID7 UniRef90_F2CPT6	MDHVVQGVDYWLIKNSWSKYWGMDGYARITR KGNDC VTVVGYGQEYWVLKNQWGTGWGEGGYMRVARGNGAN C
UniRef90_E9G903 UniRef90_I3M1Y8	MNV VGYGVDY WV VRNSWGSGWGAAGYVLVKRGVD LCVL L VGFGKSYWI LKNSWGDNWGEEGYFRLHRGSN TC
UniRef90_A7SDR5 UniRef90_G3VEJ5	KI L G WGT D Y WL CAN S WGAN WG QG Y F KI R R G T D E
UniRef90_UPI000388AE33	FELTNHGEKFWTVKNSWGSSWGENGYFRIRRGTDE VVIVGYGLKYWLIKNSWGTEWGENGYGKVERDTGG
UniRef90_C5L4S6 UniRef90_K1QH95	VLLVGYGKDYWKII KNSWGPKWGEKGYFRMILIRG QGK <mark>C</mark>
UniRef90_B1NHV8 UniRef90_V4AEK4	AVMVEDGTPYWLIQNSWGTTWGEQGFFKILRGKNE HLMQVVGYKYWLCRNSWGKDWGNQGYVWVERGTN MC
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UniRef90_W4ZI04 UniRef90_UPI000328991E	VQIVGYDIPFYIVRNSWGSGFGLDGYLHIEIGKN VQIVGFDMPFYNVRNSWGVNWGIDGYLKIKIGNN HTHPGRSTPYWILKNSWGARWGENGYFRLHQGSN TC
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UniRef90_D8QMM0 UniRef90_H2YU38	GYDTLNGVPYWIAKNSWGYGWGEGGYIRIKRQGGEPYGIL VLIVGYGTPYWIIKNSWGPDWGEQGYYRIYRGD GSC
UniRef90_W4Y0Z3 UniRef90_UPI0003330486	LLVGYGTEYWI CRNTWGEEWGDNGY IN I ARNHNN MCVLLVGFGKPYWI VKNSWGANWGEEGYFRLYRGAN TC
UniRef90_K7WFK9	VTL I GWDDQAWLIKNSWGTGWGDNGYMWI GYNSNS VTI VGYG <u>D</u> KYW <u>I A</u> KNSWSNDWGEQGYVYL <u>A</u> KDVPSSTGT <mark>C</mark>
UniRef90_M7YPC6 UniRef90_E1F0Q9	VEI VGY GVDY WTVR NS WGP D WGE DGY FRI VR GGDE
UniRef90_I3WTB2 UniRef90_UPI0002C35FDC	VKLIGWGDDYWLLANQWNRSWGDDGYFMIKRGTNE C
UniRef90_E9G0E8 UniRef90_G7I7Q5	VVIVGYGTPYWIVRNTWGTGWGLSGYFFILRRGVN M <mark>C</mark> VAILVGYGLCRKLIRDVRGYTQKVCSLTRDVRGYAQKFVDN
UniRef90_Q93VC9 UniRef90_O17255	VKLIGWGTDYWLLANQWNRSWGDDGYFKIRRGTNELAIVGYGKDYWIVKGSFGTSWGEHGYMKLARNVNAC
UniRef90_Q1EIQ3	I NI VGYGVRYWI I RNSWDTTWGDKGYGYFVADKN
UniRef90_UPI00034F8C63 UniRef90_A2DKX2	VQI VGYNVPYYI VRNSYGADFGIGGYVKLAMYRN WMTI YNGDDYWL VKNSFGKGWGQQGYGMVARNRDGACGV YGRTQHGVEYWI LKNWWGRSWGEGGYMRLERGK
UniRef90_D8SBL3 UniRef90_UPI0003F092C0	YGRTQHGVEYWILKNWWGRSWGEGGYMRLERGK VLLVGYGYDFWIVKNSWGTGWGEEGYFRIRRGNDE
UniRef90_K3XHN5 UniRef90_H0VHB4	V KL I G WG T D Y WL L A N Q WN R G WG D D G Y F K I I R G R N E C V V V V G Y G K D Y WL V K N S WG L Y F G D Q G Y I R M A R N R G N H C
UniRef90_U6KWI9	V L L V G F G R K F F I L K N S W G E G W G Q R G F M L L
UniRef90_M7ZVL7 UniRef90_UPI0001758502	NHAVGENNKY WLAKNS WSND WGDQGYLYLAKDVS WRTGT C
UniRef90_C3XXE8 UniRef90_A8D0K2	AVQVKGDVPYFIVRNSWGSGWGLDGYLHIRIGSN GVDKETGLKYWSVKNSWGPGWGESGYFRILRGADE
UniRef90_S9WRT2 UniRef90_W8YDQ5	IVIQIL VIGYGHDYWII I IRNSWGPILIWGENGYMRILLIKDEEWIVI <mark>C</mark> GM <mark>C</mark>
UniRef90_S9WG30 UniRef90_C9DFC0	VTLIGYDDQQWICKNSWGKQWGEKGFFRIA YGECNHAVQTNQHYWLIRNSWGPRWGEHGYMRLLRDTEWVCGTC
UniRef90_F7F868	VLLVGFGTPYWLLKNSWGAQWGEKGYFRLHRGSN TC
UniRef90_V9LJJ6 UniRef90_R7TF36	VLLVGYGTKYWIVKNSWGKGWGEEGYF <u>R</u> I <u>L</u> RG <u>A</u> DE C
UniRef90_D2VZ81 UniRef90_K3ZN05	V L I V G W G E N Y W I V K N S W G T S F G M D G Y F L I A R G V D E C I A I V G Y G T K Y W L G K N S W S G S W G D K G F V Y L L R D S A R V G V C
UniRef90_Q26091 UniRef90_A9NKL4	V L L V G Y G Q V K L I G W G T D Y W L V A N S W N T A W G E D G Y F K I A R G S N E
UniRef90_A0A022S299	VKLI GWGTDYWL LANQWNKSWGDDGYFMI RRGTNE CULIVGYGQDYWI VKNSWGETWGEEGF <u>F</u> RI SRGNDE C
UniRef90_V4B8Z0 UniRef90_A0BLR4	ATAI GFTETYWLVQSSYGTSWGQNGYLYLAPGD T <mark>C</mark>
UniRef90_V6LXG3 UniRef90_Q94715	VMFVGFGTPYWTVKNSWGNTFGENGFFRIARGQNE ALAVGFDSNNWIVQNSWGTQWGESGNIRLY PQNTC
UniRef90_UPI0003BCEDD7 UniRef90_C4M277	
UniRef90_A9S9A1 UniRef90_UPI0003599906	VKLVGWGTDYWSMVNSWNTNWGEDGTFRILRGKDE VVAVGWGQKYWIVKNSWGDGWGLDGYFWIERGNDE
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UniRef90_L0HP22 UniRef90_Q0GZL5	V
UniRef90_I1QRC2 UniRef90_A0A044SUF8	V L V V G Y G R H Y W V K N R S A Y C
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UniRef90_Q25644	V
UniRef90_D2VZV5 UniRef90_R7VE68	VKI VGWGYPYWICANSWGEDWGIKGYFWIIRGR GECVII VGYDIPFYLAKNSWGVEFGHEGYLYLEYGHN MC
UniRef90_K7MRR5 UniRef90_G0N0W5	NHVVRPNQ EWHVGYGTPYWIVRNSWNTNWGEDGYLRIKRGVN
UniRef90_UPI000383391D UniRef90_F4WS64	VLLVGYGTKFWIVKNSWGTSWGEDGYFRIRRGTDE VLAVGYGTMYWLIKNSWSNYWGNDGYILMAQKDDN C
UniRef90_W4WVI5 UniRef90_A4FUP7	AVQLE A RIPHYLIKNS WGPSFGNKGYLYTATGKN
UniRef90_T0Q4I9	YPMIENGVGFWKVRNAWGTIWGEQGDMRLLRGIG GRGTC
JniRef90_K4B7P3	VKLIGWGTDYWLLVNSWNKGWGNDGYFKIRRGTNE C



UniRef90_Q7QCN0 UniRef90_V4AH41 UniRef90_UPl0003BC631E	1 10 20 30 40 L P H R V D W R E Q G V I S T V K N Q G G C G A C W A I S V V D T I A A L A A I L P E S F D A R T K W Y I K P I R D Q G N C G A S W A F S T T A V A S D R L A I A V D Y R N M G F V T E V K D Q G F C G S C W A F S T T G A I E A Q L Y K E A V D W S S K L F P I K D Q F N C G S Y W I F S A V G A V E A F L R V
UniRef90_A0CM86 UniRef90_D3BRT6 UniRef90_A7NLL8 UniRef90_V6LEE5	LPAAFNWCEQGLCTPVKDQGGCGSCWAFATAGVVESALKR
UniRef90_Q3L7L4 UniRef90_E9G0F0 UniRef90_H2MSF6 UniRef90_T1HMP7	L P E K F D L G Y L S K I R N Q G R C G A C WA F A A L A S V E S A Y N R D MI D Y R T H K C L I P I K D Q G D C G S C WA Y A A N T P L E F N N C R L P D S F D W P N C P T L K Q I R D Q G N C G S C WA F G A A E A I S D R I C I P E E F D W P N C T T I S E V R D Q G S C G S C WA F G A V G A M S D R I C I V P D Q L D W R N N G A V N P A K G Q G T C G S C WA F A T A G A V K A A H F I Q G Q C G T C WA F S A T G A M E G V Y C A
UniRef90_A7SY48 UniRef90_O43947 UniRef90_C1L6J7 UniRef90_A2F4G0	GACAASWAFGTLAAEESQWAI
UniRef90_H2VTI9 UniRef90_B4L388 UniRef90_J9I953 UniRef90_L0HRM0 UniRef90_L7M824	L P E S F D WP N C P T I G E I R D Q G S C G S C WA F G A V E A M S D R V C I K S I D W K K G K V G I P K D Q S T C G S C WA H S T L A S V E T L Y A L P F O R D Y R F W N I L I P P K D Q G M C G S C WA F A S V G N Y F A L F A K
UniRef90_U4PME4 UniRef90_Q26655 UniRef90_UPI0003443A11 UniRef90_A0A016WS19	LPESFDWRKCNSIHVIRDQSSCGACWAFGAVEAISDRICI LDWRDEGVVGPVKDQGNCNASYAFAAISAIESMYAI VPEEFDWPNCPTIGEIRDQGSCGSCWAFGAVEAMSDRLCI VPASCDWRKKGVKSPIKEQGNCNCCWAMAAAGNIEALWSI VPRSFDWPECKSIGMLRDQSACGSCWAVSAASAMSDRLCI
UniRef90_T0QLE6 UniRef90_F6MIV7 UniRef90_O15555 UniRef90_A2F844	NCI LPTNFDWPNCPTVKEVRDQGDCGSCWAFGAVEAMSDRICI LPKDYDPRVEHCLPEVADQASCGSCWAFSAVAADRRCAYG LPAEFSWRDVNVVGKPRDQVACGSCWAFGTAESILESQLAI
UniRef90_B8CFT2 UniRef90_J9IU08 UniRef90_Q93X53 UniRef90_V5H0E3 UniRef90_UP100046EB587	L P K E F D WR S H E S V G P I Q D Q G F C G S C WA F S L N F A I E S R WY I L P E K Y D WR E V D C V Q P V V N Q G N C S S S Y I T A A L S T V A D R I C Q N Q I L P E S F D A R E K W S H C A I R D Q S A C G S C W A F G A V E A I S D R I C I V P D F D W R M R G W I T P V K D Q G N C G S C W A F S A T G A M E A K L Y R
UniRef90_G0MSK5 UniRef90_UPl0003834AFD UniRef90_A0A024UJW0 UniRef90_T0R834	ATVDWTTGRCINPVRNQGQCGSCWAFSSVGAAEPAHCI
UniRef90_Q6XPZ9 UniRef90_M8BAZ2 UniRef90_K1QS40 UniRef90_Q9BMF6	L P K Q F D WP E C P T L K E I R D Q G S C G S C WA F G A A E A I S D R I C I L P M Y V D WR M T G Y V T S V K R Q G G C G S C WA F A A A A A V E G I N S I L P A T F D WP N C P T L K E V R D Q G A C G S C WA F G A V E A M S D R I C I I P K D F D WP H C P T I WE I R D Q G S C G S C WA F G A V E A M S D R V C I I P K S F D WP H C P S I S E I R D Q S S C G S C WA F G A V E A M S D R L C I L P D S F D WP N C P T I R Q I R D Q G S C G S C WA F G A V E A M S D R L C I L P D S F D WP N C P T I R Q I R D Q G S C G S C WA F G A V E A M S D R L C I L P D S F D WP N C P T I R Q I R D Q G S C G S C WA F G A V E A M S D R L C I L P D S F D WP N C P T I R Q I R D Q G S C G S C WA F G A V E V I S D R L C I
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JniRef90_Q24943 N E R A S A S F S E Q Q L V D C T R D F G N Y G C G Y M E N A Y E Y L K H N G L JniRef90_A0CK16 N K N K L D Q L S K T H L I D C D G N T E G C D G G S V S D A F D F I N K Y G T JniRef90_R659 JniRef90_F1L5C3 JT D G R V N L S A Q Q L L S C N Q H Q R G C E G G Y L D R A W W Y I R K L G V JniRef90_B9GRU6 H Y G M N L S L S V N D L L A C C G C G D G C D G G Y P I D A W R Y F V Q S G V	UniRef90_U6JRI6 UniRef90_U6PRP4	G T N G R V O U S D T D U U S O	C G C G D G C D	G G Y A L R A WG Y A K D S GV
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JIIIREIBU_DBURNUS HIYUMILISILISIVIN DIL LIAUUGUGU GUUGUYPILDAWRYFIVQSGV JNIREIBU_DBURNUS QILIDOS WGFGODGGGEPQAFEWIIMKHGGII	UniRef90_F1L5C3	TT DGRVNLSAQQL LS	NOHORGCE	G G Y L D R A WWY L R K L G V
	UniRef90_B9GRU6 UniRef90_V8P426	H Y G M N L S L S V N D L L A Q L L I D C	SWGFG <mark>C</mark> DG	G Q E P Q A F E WI M K H G GI

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UniRef90_V4AH41	V T
UniRef90_UPI0003BC631E UniRef90_A0CM86	ESSNTYPYTSVVGLCCLILHHKKVNNS VYELDYPYKGREGFCKVRREGE VKISGRERIGSNEDDI
UniRef90_D3BRT6	VIN F T T A P Y T Q S N G T <mark>C</mark> T Q F P N A IV IS II IK W N S W Y T II IK P N K A A
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UniRef90_B4L388	VSGGSYNSNEG <mark>CRPY</mark> ELEP <mark>C</mark> EHHVNG <u>T</u> SKSYSLRR <u>N</u> PREL
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UniRef90_A0A024UJW0 UniRef90_T0R834	CLERDYPYTSGSTSQTGTCNSNSCTK TCNALSPYRAASSATCTSVDVVSKWSSSSSYLSIQNSYDD VTGGLYNSHIGCRPYTIEPCEHHVHYGKTSYGVPSEEEQL
UniRef90_Q6XPZ9	VT G GLYNSHIGCRPYTIEPCEHHVHYGKTSYGVPSEEEQI
UniRef90_M8BAZ2 UniRef90_K1QS40	VIT G G Q Y N S H Q G C L P Y T I K A C D H H V V G K G S S A Y S V H G V E K I
UniRef90_Q9BMF6	V S G G P Y G S S Q G C R P Y E L A P C E H H V N G T R P P Y S I S K N V H D I
UniRef90_A1YLF2 UniRef90_G3P7I4	V S G G P Y G S S Q G C R P Y E I A P C E H H V N G T R P P Y S I S K N V H D I V T G G S K E E P T G C R P Y P F P K C Q H H K T R A N T S Y N V H Q S E V A I V T E E T P K C E E R C V D G Y S T S Y W K D K H L G R D A Y S V P S Q E E Q I
UniRef90_M4AL48	VII G GILIY N S HII IG C R P Y I II IE P C E H H K Y Y G K I A Y NIVIP P E E D QII I
UniRef90_A0A016S8W8 UniRef90_S4NDM4	VTGSNYTMKAG <mark>C</mark> KPYPYAP <mark>C</mark> EHHDNATRYQP <mark>C</mark> PSD[YPD] QDENSFKYKAK <u>D</u> LP <mark>C</mark> SDKK <u>P</u> YAY <u>RV</u> K[AGKEF <u>N</u> PTGNAHA
UniRef90_A0A023G5S2	VIT G G N Y D S D F G C M P Y PILIK A C D H HIVIN G T ILIG P Y SIVIP A K A K QILI
UniRef90_T2MGS4 UniRef90_A8B6Q6	VTGGPYNSHKGCQPYAI PACDHHVPHSKNPYSI NNDQNEI PLESCVKYTDYDQTQSRPCPSTCVYKPDGYEGVGLNCERL
UniRef90_A8QFP2	VIS F F C Y P Y IV IS G G R F C P S G H A N S R IV IY R T T P S Y R IV IS S K F K D II I
UniRef90_S0AYY2 UniRef90_T0PVI6	GSESSFPYTTKDDYC KSTPRVAELDSYHYKN <mark>C</mark> AGEDS <mark>CH</mark> CTEKALPYTSGYWGCSDNAKCAGSISLYVDELVEARGEAA
UniRef90_Q6A1I2	VTGGQYNSKEG <mark>C</mark> QPYLIAS <mark>CDHHVV</mark> GKKQPYSVRSSVEAI PQKIVIPYTGEDTGK <mark>C</mark> TVSKN <mark>C</mark> TRYYTTDYSYIGGNEKLM
UniRef90_Q26563 UniRef90_UPI0003EBE582	VSGGLYDSHVGCRPYSIPPCEHHVHYGCKSYSVPSSEKEI
UniRef90_A0A034WXU0 UniRef90_R4MY40	VIT G G N Y D S D D G C M P Y PILIK A C D H H K H Y G K S G Y SIVIP S T F F QILI
UniRef90_G5AMF3	V T G G P Y N S K Q G C Q P Y Q I K A C D H H V V C I S N Y N N T Y K A D E K I V S G G L Y D S H V G C R P Y S I P P C E H H V N G T Y D S Y S V S S N E K E I
UniRef90_P79828 UniRef90_C1E265	D T E E A Y P Y II IG O D E O CIVIY N A S G M G A O C R G E K E II IP E G D E W A II I
UniRef90_E9HX28	LSVEDFPTASDRCMEAESNEKAKGVTIDGFCEIPPETVYA VTGGNFNSSQGCQPYIIPACEHHTTGDRSSYSVHKRMEDI AYEKDDPYKAVDGLACVTSSSASRFKYASYSY TANNKAA
UniRef90_F0ZAA1 UniRef90_Q1EGF0	AYEKDDPYKA <u>IVID GILIA CI</u> VIT SSSASRFKYASYSY TANNKAA VISGGPFGSDQG <mark>C</mark> QPYAII IAP <mark>C</mark> EHHVINGSKSSYSITIANHFKOIT
UniRef90_F7ALZ4	VS G GLY D S HVG CRPY SLPPCEHHVN G SSTSYSVPS SEQEL
UniRef90_A0A024YRF0 UniRef90_H2M611	A Y E K D D P Y K A W D G L A C V T S S S A S R F K Y A S Y S Y T A N N K A A V S G G P F G S D Q G C Q P Y A I A P C E H H V N G S K S S Y S I A N H E K Q I V S G G L Y D S H V G C R P Y S I P P C E H H V N G S S T S Y S V P S S E Q E I A D P D C W P Y R D A W R A E Y R P S W D R S G R T V R I S D Y V R L G D V E Q V T G G L Y D S H V G C R P Y T I P P C E H H V N G T K T S Y S V E A N E N Q I P D D A C Y P Y T D K D Q P C K P C A D R A K R I I K I Q G W R S L S T A S Q A S V S C Y T T A A A S Q S C S C S C S C S C S C S C S C S C
UniRef90_G7WRC5	PDDACYPYTOKDQPCKPCADRAKRIIKIQGWRSLSTASQA
UniRef90_J9JBF2 UniRef90_A5HC44	- V 3 J N V 1 F T
UniRef90_B0W0V6	VEEDCFPYTGTDSPCKMKEDCFRYYSSEYHYFYGGCNEAL VSGAPYNSSEGCKPYPFKNPKCLHHCINGYYKIPNDARMI
UniRef90_B9FA59 UniRef90_U6NTX4	TT E A D Y P Y T A R R G P R N R A K S A H H A A K L T G F G K V T P R N E A A V T G G D Y G A K D C C R P Y P F H P C G H H E N Q T Y Y G E C V P Q S V K A I
UniRef90_U6NQ25	VTGGDYGAKDCCRPYPFHPCGHHENQTYYGECVPQSVKAI VTGGDYGATDCCRPYPFHPCGHHGNETYYGECPEDGSKAI LEEPRFPYTGTDSPCKPKECFHYSSSEYHYVAGFYG PTEKCVPYIAFCPTSCFNSTQPMVLYKTKSVQNVTGELDM DSEASYPYLATDDQPCHYDPSNNSANETGFVDVPSGSERA
UniRef90_M3XE95 UniRef90_D2VSR7	PTEKCVPY A FCPTS CFNSTQPMV LYKTKSVQNVTGELDM
UniRef90_Q4TD95	D S E A S Y P Y L A T D D Q P C H Y D P S N N S A N E T G F V D V P S G S E R A M E D K D Y P Y K G M K E N C K F N Q R A S L R V R I V K D K Q L A S E K S M
UniRef90_H2ZV95 UniRef90_H5X445	MEDADVPVTAGMAENUKPNQKASLKVKLVADGVVDL ASEKSM
UniRef90_X1XZP8	VNDECYPYLAAKNOCKINNVNRTAMYRMGPAYSINNETDI SSESSYPYRARRGIC KKDKSVAARUSGFRFVYWTEEAL
UniRef90_M8B492 UniRef90_Q5GH35	VSGGNYGSKEG <mark>CQPY</mark> SLAPCEHHIHYAEFVYSTERDVKEI
UniRef90_Q0AY53	VSGGNYGSKEGCQPYSTAPCEHHTHYAEFVYSTERDVKELLEKEDPYDPFDDGPCTQFSPQKHINVIFTPDRKDASDNQNTDETCSPFTARCSTCSANGSCELPKKYDLFHVTVSGEAE
UniRef90_C5LYL7 UniRef90_I6QVR2	VII G GIL IY G T K N A C R P Y EII IS P C G N H P N E T F Y S Y NIL IA N SIVIS AII I
UniRef90_U6JRI6 UniRef90_U6PBP4	DGTCHFKRSDVGATVTGYVDIPTGDEEAL CSGGRYDTKGNCKPYVFYPCNRDKVFVKGAYMLPQNEALI
UniRef90_Q24943	ETESYYPYQAVEGPCQYDGRLAYAKVTGYYTVHSGDEIEL VYEKDYREYDQKEGQCSKPKGSIGYKQFKSVVGLTKFTNN
UniRef90_A0CK16	VYEKDYREYDQKEGQ <mark>C</mark> SKPKGSIGYKQFKS <u>VVGL</u> TKF <u>T</u> NN PSG <u>GD</u> YGSKLG <u>CK</u> PYTAATPQ <u>CQK</u> A <u>CV</u> SGYYQVNGG <u>VL</u> QI
UniRef90_Q8T659 UniRef90_F1L5C3	VSELCYPYTGAHLDCPSGAADPSVYRMTPPYRVSSREQDI
UniRef90_B9GRU6	VSELCYPYTGAHIDCPSGAADPSVYRMTPPYRVSSREQDI VTEECDPYCERKCADKNKLWAESKHFSVNAYRIDSDPHSL ATAEAYGPYMGQNGYCHYNQSELMAPLTGFLAITSQNMTD
UniRef90_V8P426	ATAEAYGPYMGQNGY <mark>C</mark> HYNQSELMAPLTGFLAIITSQNMTD

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UniRef90_V4AH41 UniRef90_UPI0003BC631E UniRef90_A0CM86	MKELMDNGPVQATFMVKSDFFMYKNGVYYHSVRLIGWGVE KQKV QEY <u>PVS</u> ASVD <mark>C</mark> QGWAYYS <u>KGIF</u> DE <u>G</u> CT <u>D</u> HRSNHD
UniRef90_D3BRT6 UniRef90_A7NLL8	I I QELK NGPVTVSLNAGDPQFRSYVSGVFSCPQVHNGTTH KRLIREHGPVSAYVCAGSRFMWHRSGVFETDECNGSLNHA
UniRef90_V6LEE5 UniRef90_Q3L7L4	MKTAVRKG VQTAFTVYSDFMYYDSGIYQHVSGNEEGGHA IQRL LKERETAIAAMIEVNDFKKFSVITVDASTGKKFYHA SFDCLIDKNVDLI HKRHSFNLSSSGVYSDPACNDVDHA
UniRef90_E9G0F0 UniRef90_H2MSF6	S F D C L L D K N V D L L H K R H S F N L S S G V Y S D P A C N D V D H A M T E L Y K N G P V E A A F S V Y A D F L L Y K N G V Y Q H V T G D M L G G H A
UniRef90_T1HMP7 UniRef90_A7SY48 UniRef90_O43947	LIKKALSYHGPTISINANPKSLKFYSDGIMSDKHC
UniRef90_C1L6J7 UniRef90_A2F4G0	MT E L Y K N G P V E A A F S V Y A D F L L Y K N G V Y Q H V T G D M L G G H A Q T E L L L K N G P V E A T F L V Y E D F V S Y K E G V Y K N V A G D L L G G H A L K K A L S Y H G P T I S I N A N P K S L K F Y S D G I M S D K H C K T A L A L R S P V S V A L Q A N Q A A F Q F Y Y D G I F D A P C G T N L D H G R L E L V H N G P F P V G F E V F E D F E F Y K D G V Y Y S F N P F E L T N H A L A L A V S L V G V T V S V D A S R T S F Q L Y Q S G I Y Y E P D C S T E T M S Q T E I L N N G P I E V A F T V Y E D F Y Q Y H S G I Y V K H V H G K F L G G H A
UniRef90_H2VTI9 UniRef90_B4L388	QTEILNNGPIEVAFTVYEDFYQYHSGIYVHTAGASLGGHA QREIMTNGPVEGAFTVYEDLILYKSGVYKHVHGKELGGHA LEKLVCQGTVSISIRINDCIKNYKSGVLYDGDGSCSTNHA
UniRef90_J9I953 UniRef90_L0HRM0 UniRef90_L7M824	SENEVER SELVEN S
UniRef90_U4PME4 UniRef90_Q26655	SLNEVGPITVNVGV SDEFVLYSGGIFDGTCASELNHS IKTEIFKNGPVEADFAVYADFYSYKSGVYQRCGSHALRIL ALVFIDERGPGLFTMNTPPSFFNYKSGIYNECKSTNEKRA QKEIMQNGPVEGAFTVYEDLILYKDGVYQHVHGRELGGHA
UniRef90_UPI0003443A11 UniRef90_A0A016WS19	ANYLAIHGPIII <u>VIII</u> NMK <u>LLQQYKKGVI</u> KAIPAI <mark>U</mark> DPGGHF OKEIMTNGPVOAVMRTYODESYYKGGUYMHTAGAOTGATS
UniRef90_T0QLE6 UniRef90_F6MIV7 UniRef90_O15555	LTTALVTQPVTVAVYAGNDAWQYYQGGVVSSCPSGQSDHAMTEIMTNGPVEAAFTVYEDFLSYKSGVYQHRTGQELGGHAMEALVYDGPLQVAFVVYSDFGYYSSGVYQHVNGMMEGGHAKEALYQYGPASIGINVIESMSFYTKGAVNDPTCTHEVLLT
UniRef90_015555 UniRef90_A2F844 UniRef90_B8CFT2	KEAL YOU GPASI GINVIES MSFYTKGAVNDPTCTHEVLLT KHALIKKGPISVAFNVVDFSIIYYANGVIDVOSCSKNFDHA
UniRef90_J9IU08 UniRef90_Q93X53	KHALLIKKGPLSVAFNVVDESLYYANGVLDVQSCSKNEDHALKKEILKNGPVVAQMVIYTDFLTYKEGVYHRTEDAFKFNGLQKAVAHHPVSVAIEAGGREFQLYHSGVFSGRCGTQLDHGQTEIFKNGPVEASLFVYADFFSYKSGVYQHHSDDWLGVHALEKLAGRIGSWSHAMTLVGYKTIKAGDVVYSTTSTKITIQ
UniRef90_V5H0E3 UniRef90_UPI00046EB587	Q T E F K N G P V E A S L F V Y A D F F S Y K S G V Y Q H H S D D W L G V H A E K L A G R G S W S H A M T L V G Y K T I K A G D V V Y S T T S T K I T I Q Q K E L M T H G P L E A F E V Y E D F L N Y D G G V Y V H T G G K L G G G H A
UniRef90_G0MSK5 UniRef90_UPI0003834AFD UniRef90_A0A024UJW0	VK A A L Y K H P V A V S L D A S H K S F S F Y S N G L Y Y E P K C A N E T G E
UniRef90_T0R834 UniRef90_Q6XPZ9	VMKALQNGPLSISIDASGAGFRHYGSGIYDASDCKSMLMG QSEIYKNGPVEGAFIVYEDFPSYKSGVYQHVTGSALGGHA LMQ AVAAQPVVVVVDPNAFRRYGGGVFVGPCGTDRTHS
UniRef90_M8BAZ2 UniRef90_K1QS40	MT EILIMT NG PIVIE G A E TIVIY A D E P O Y K S GIVIY K H T T G O PIL IG G H A
UniRef90_Q9BMF6 UniRef90_A1YLF2 UniRef90_G3P7I4	QEEI MTHGPVEGAFTVYEDLILYKDGVYEHVHGKELGGHA MKEILLNGPVEATFEVHEDFPEYKSGIYFHAWGGSVGGHA MAELFKRGPVEAAFSVYTDFALYKTGVYQHVTGEMVARHA
UniRef90_M4AL48 UniRef90_A0A016S8W8	QKEII MTNGPIVIE GAFRIVIYS DFPSYRS GIVIY QHIVIS GSYIVIG GHA
UniRef90_S4NDM4 UniRef90_A0A023G5S2	DMEKILIKSMILVIKSAGRIVIGEWRHAMILI VIGYKILLIREGDIVLIYPH
UniRef90_T2MGS4 UniRef90_A8B6Q6 UniRef90_A8QFP2	QAEIMMNGPVEADFTVYEDFLHYKSGVYQRHTDSALGGHAMREIMTNGPVEAAFTVFADFPNYKSGVYQHVSGEELGGHAKRAVALRGPMQAMFTVYEDFTYYLEGIYSYTYGNRVGFLSMSEILTNGPVQATFLVHGDFFMYSGGVYKHLPAVEEKVEG
UniRef90_S0AYY2 UniRef90_T0PVI6	RDLIYSYKGTVVAFDASRANFQLYTKGIYKDRCKTDNPTH
UniRef90_Q6A1I2 UniRef90_Q26563	QTEI MTNGPVEGAFTVYADFPTYKSGVYQHTSGGHALRLL QLEL ISNGPFPVGFEVYEDFQFYKEGIYHHTTVQTDHYHA
UniRef90_UPI0003EBE582 UniRef90_A0A034WXU0 UniRef90_R4MY40	QAEI WTNGPVEAAFSVYSDFLWYKSGVYQHVIGGHAIRLL CTEI MTNGPVEAAFTVYADFVTYKSGVYQHMSGAPIGGHAI
UniRef90_G5AMF3 UniRef90_P79828	MÁEI YKNGPVEGAFTVFSDFĽMYKTGVYKHĽAGEMLGGHA TKAVVKVGPVAVGĽDATĽSTFQFYQRGVYYDPN <mark>C</mark> NDINHA
UniRef90_C1E265 UniRef90_E9HX28	QTEI MTNGPVE AAFSVY ADFPTY KSGVY QHTTSGGHALRLL QLELISNGPFPVGFEVY EDFQFY KEGI YHHTTVQTDHYHA MAEI YKNGPVE AAFSVY SDFLMY KSGVY QHVTGGHAVRI L QAEI MTNGPVE ADFTVY ADFVHY KSGVY QHVTGGHAVRI L QTEI MTNGPVE AAFTVY ADFVHY KSGVY QHMSGAPLGGHA MAEI YKNGPVE GAFTVFSDFLMY KSGVY QHMSGAPLGGHA TKAVVKVGPV AVGIDATLSTFQFY QRGVY YDPNCNDINHA LLRALY QQPVAIGMNVKPLQLY GGGLVTMEDCPPNAINHA QLEIMNNGPVE GALTVY EDFPTY KSGVY QHVHGKALGGHA
UniRef90_F0ZAA1 UniRef90_Q1EGF0 UniRef90_F7ALZ4	QKEIMTNGPVEGAFTVYEDLLNYKEGVYHHVHGKMLGGHA
UniRef90_A0A024YRF0 UniRef90_H2M611	QKVWLDTVGPLTACFDVYDDFFGLGAGVYHRTSDRLAGGHQTEIYKNGPVEGAFMVYEDFPMYKSGVYQHVSGSLIGGHAKEWICRHGPVITGMAVYTDFFSYRGGVYRHASGRLEGYHALKIVQQQPVALAVNAYNVVFQGYKKGIVNSYCKGEVDHA
UniRef90_G7WRC5 UniRef90_J9JBF2	KEWICRHGPVITGMAVYTDFFSYRGGVYRHASGRLEGYHA LKIVQQPVAIAVNAYNVVFQGYKKGIVNSYCKGEVDHA
UniRef90_A5HC44 UniRef90_B0W0V6 UniRef90_B9FA59	MKLELVIHHGPMAVAFEVYDDFLHYHKGI YHHTG QLEI MTNGPVATGFEVFEDFYFYHSGVYKHVVGKKVGMHA LQAAVARQPVAVAI EVG SGMQFYKGGVYTGPCGTCLAHA
UniRef90_U6NTX4 UniRef90_U6NQ25	ODELLMI LODVITCH LVVEDLVVVEVOLVKUTA CA ETOCHA
UniRef90_M3XE95 UniRef90_D2VSR7	CNELACRGPVAVAFEIYDLFLHWHRGIYLQLHCFELTNHA QQALLQGGSIMTEMDVYQDFLYYSSGVYEHDPSFTQPRIV
UniRef90_Q4TD95 UniRef90_H2ZV95 UniRef90_H5X445	QKEIMRNGPVVIAFIVFDDFSFYRKGIYKHIAGAEIGGHA QKEIMRNGPVVAAFIVFDDFSFYRKGIYKHIAGAEIGGHA CNELACRGPVAVAFEIYDLFLHWRGGIYLQLHCFELLTNHA QQAILQGGSIMTEMDVYQDFILYYSSGVYEHDPSFTQPRIV LMKAVAVGPVSVAIDAGHESFQFYQSGIYYECSSEELDHG ADEVALHGPIVIIIDVNGSFNRFNGTGIFYEEDCKGNGLH KEHIYGYGAVTACLVVYDDLFHYTGGVYRHTTEQTSGGHC MTEIKERGTVQAILRVYRDFFSYQNGIYRHTTEQTSGGHC
UniRef90_X1XZP8 UniRef90_M8B492	FRAIVIARUPIVI VISILIUJU III II II II II II III II II II II II
UniRef90_Q5GH35 UniRef90_Q0AY53	II IK Q AII IS K Y G AIVIE S G M Y Y E D Q Y Y N P D K S S Y Y E P S Y S E S N H A
UniRef90_C5LYL7 UniRef90_I6QVR2 UniRef90_U6JRI6	QSETKARGPVVCHMHVDEAFRANYEGGVYQDKPNAEINHE QKDILKHGPLVATFSVYEDFMYYKKGIYRYTHGGYEGGHA KQAVATIGPISVAIDASHDSFQSYQDGVYDEPECSSEELD
UniRef90_U6PBP4 UniRef90_Q24943	Q S QII M R K G P V Q A A F V V Y E D F G A Y K S GII Y V H V G G R E A G A H A K N L V G T E D L P A V A L D A D S D F M M Y Q S G II Y Q S Q T C P D R L T H A
UniRef90_A0CK16 UniRef90_Q8T659	DILIFTAMOTGPIVITAILIMYADES WILIRYTS GILLINT <mark>C</mark> GYPKIVIS NY
UniRef90_F1L5C3 UniRef90_B9GRU6	QREILDNGPVTAYMEVYEDFYSYGTGIYQHTSGSFVGGHAMTEIITNGPVQATFLVYEDFFMYSGGVYQHHSVRIIGWGEMAEVSMNGPVEVAFTVYEDFAHYKSGVYKHITGDVMGGHALKAALYKHPIAVNIDASHKSFAFYSNGLYYEPNCGNTTME
UniRef90_V8P426	LKAALIYKHPI AVNI DASHKSFAFYSNGI IYYEPN <mark>U</mark> GNI I ME

UniRef90_Q7QCN0	VAI VGYDVP	170 Y Y J I V K N	180 SWGPRFGDH	190 GYVKVALGRN	200 L <mark>C</mark>
UniRef90_V4AH41 UniRef90_UPI0003BC631E UniRef90_A0CM86 UniRef90_D3BRT6	V <u>V</u> I VGFDKD	N WKIR N	S WG∇G WG <u>E</u> Q	GYFRLIRGRDE GYMWLKSG GYMYLTAA <u>N</u> DN	N T C
UniRef90_A7NLL8 UniRef90_V6LEE5 UniRef90_Q3L7L4	IV V L VIG WD D S	A WRLRN Y WI I KN	S	G Y M W I G Y G L I G F F R I L R G Q N E	C
UniRef90_E9G0F0 UniRef90_H2MSF6 UniRef90_T1HMP7	VVIVGYGTP VKILGWGTP	Y WI V R N Y WL V A N	S WGI VWGI K S WN S D WG D K	GYFLIKRGVN GFFKIKRGNDE GFFKILRGNNE	M C C C
UniRef90_A7SY48 UniRef90_O43947 UniRef90_C1L6J7	V L L V G Y Q G D	Y WI_V K N	S W	GYFR R G D E	
UniRef90_A2F4G0 UniRef90_H2VTI9 UniRef90_B4L388	MACVGYGTN VKIVGWG <u>T</u> P	Y WI V K N Y WL V A N	<mark>C</mark> F G D K W G E Q S W N V G W G E N	GYÜRMIKDKNNN GYFRILRGVNE GFFRIVRGED <u>H</u>	CCCC
UniRef90_J91953 UniRef90_L0HRM0 UniRef90_L7M824	V A I V G F G Q D V L L V G Y G	Y W <u>V I</u> K N	SWGPGWGEE	Ğ F M R L <mark>C</mark> R D S Q [D N G Y F K [R R G N N E	
UniRef90_U4PME4 UniRef90_Q26655 UniRef90_UPI0003443A11	LTIVGYGQN LRLLGWG <u>T</u> P	Y WI V K G Y W L I A N	S F G S WN T D WG N N	GFFKMLRGEDH GYFRLHRGSN	T C
UniRef90_A0A016WS19 UniRef90_T0QLE6 UniRef90_F6MIV7	VKLIGWGEP VIAVGYGSN	Y WI A A N Y Y K I R N	T WN S D WG E N S WG A S WG E A	G F F R II L IR G S N E	GTC
UniRef90_O15555 UniRef90_A2F844 UniRef90_B8CFT2	VE MVGYGID	Y WI I R N C W E I K N	S WG P D WG E G S WS T H WG N E	GYFRIIRRVNE GYIYIQ AENQE	C
UniRef90_J9IU08 UniRef90_Q93X53 UniRef90_V5H0E3	QHVVGDGND VVAVGYG	F W <u>I V</u> E N	SWGSDWGED	ĠŸŴĸĹĹĸĠQDE	C
UniRef90_UPI00046EB587 UniRef90_G0MSK5 UniRef90_UPI0003834AFD	PGDPRIGKT VKLIGWGIP	A WIFKN Y WTVAN	S WG K N WG D H S WN T D WG E D	G F L Y A F V N I N N M S G F F R I L R G V D E G Y I L M A M K D N N	
UniRef90_A0A024UJW0 UniRef90_T0R834 UniRef90_Q6XPZ9	Y G A T A A G E L	Y WI VRN	SWGTMWGEN	GQMRMKRASTSKF GFFKILRGSNH	G P C
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UniRef90_W5GJ81 UniRef90_J9JJZ8	^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ \
UniRef90_Q4T156	MY EI MN WGSVQAMMKVSKEFFMYESGVYRCSNGSKTGYHT MKEI QDNGPVQAI MEVHEDFFMYNSGI YKHTDVSFTKPPH LLLKVYQQPI SVALDASGWQFY QGGVFTGPCQTPLNHA QRDI MMYGPVEAAFDVYEDFLNSKSGI SRHVTGGHPI RI I
UniRef90_B9G545 UniRef90_Q5DFQ0	QRDI MMY GPIVE A A FDIVIY FD FINSKS GILSR HIVIT G G H PILRIT
UniRef90_A0DZB1	MMELYTNGPVIMNFEPSYDFMYYESGLYHSHDWSTQERPE
UniRef90_UPI00039436D5 UniRef90_A0A016SYX8	A V A IL IY K V IG P V IS V IG II D A Q Q S S F Q F Y K H G V Y Y D P N C N D V N H A
UniRef90_P43508	QRDIMMYGPVEAAFDVYEDFLNSKSGISRHVTGGHPIRII MMELYTNGPVIMNFEPSYDFMYYESGLYHSHDWSTQERPE AVALYKVGPVSVGIDAQQSSFQFYKHGVYYDPNCNDVNHA RQEIFETGPVIATFDVYQDFSYYRGGVYVHKWGDKTGAHA QAEIIAHGPVEAAFTVYEDFYQYKTGVYVHTTGQELGGHA RREIKERGSVTATFAVYEDFSHYKSGIYKHTAGYITGFHA MLELFNNGPVIMNFEPGQDFMYYSSGIYKHTAGYITGFHA MLELFNNGPVIMNFEPGQDFMYYSSGIYHDRPEWEKVDHS QNDLMLHGPLQMTFEVYDDFLQYTTGIYVHLAGDKRGHLS LRRDIKERGSVVAVFAVYEDFSHYQSGIYKHTGYHAVKMI MAEIIYARGPIACSVAVITDGFLKYSGGIFDDKTNATDVDHA
UniRef90_U6PM13	RREI KERGSVTATFAVYEDFSHYKSGI YKHTAGYLTGFHA
UniRef90_A0E1S5 UniRef90_K7GXX3	QNDLMLHGPLQMTFEVYDDFLQYTTGIIYVHIAGDKRGHIS
UniRef90_Q25030	IRRDIKERGSVVAVFAVYEDFSHYQSGLYKHTGYHAVKMI
UniRef90_D0MWA1 UniRef90_D5E8V1	MAEII YARGPII A <mark>USIV</mark> AIVII DGF <u>LI</u> KYSGGII FDDKTNATD <u>V</u> DHA KKAVMEHGAII FTI EKVNHSAFADNSTTYYNNGSFYGNRHG
UniRef90_S0FWN6	MAEI YARGPI A CSVAVTDGF LKYSGGI FDDKTNATDVDHA KKAVMEHGALFTI FKVNHSAFADNSTTYYNNGSEYGNRHG FKRAIMTFGALDVAVLAQEDFSFYEGGI FSDDSPTNHAVS
UniRef90_D8M0P0 UniRef90_D3BUP2	MKEILIYARGPILIL <mark>C</mark> GILIAWPQDDEWDYKGGILIYKDESGAWEKWHA
UniRef90_F3YU35	L TAAL QTGPI AL QADDGFQSYSSGI YNCPTKYTSVNHA LKQAVMDHGGVYTSHYTSTSTSHYKSSTHYYSGTTPANHA
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UniRef90_U6NS85 UniRef90_A8PT54	VKIIGWGKPYWLLTNSWHEDWGEKGFFRMVRGLNE VKILGWGLDYWLAANSWNNDWGEDGYFRILRGADE
UniRef90_F6VL98 UniRef90_P25792	MLVGVGYDQYWIVKNSWSTGWGEEGYVRLRRHNPDDETDC IRIIGWGTPYWLIANSWNEDWGENG <u>YF</u> RIVRG <u>R</u> DE
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UniRef90_C6LU69	VĚL VGYGQDYWI VKNYWGSNWGEDGYFRI VRGQNE CLDHVLQGKSYWLIKNSWSTYWGNDGYVLMAMKDNN C
UniRef90_UPI000392EC2E UniRef90_B6KHH7	<u> K G W G T E Y W H A V N S W N T Y W G D G G Q F K A M G Q C</u>
UniRef90_M7C3A3 UniRef90_U6PJS9	RTPQGQTQKYWVAANSWGKHWGEDGYFRIARGANE DHSTGRALPYWLAANSWGRQWGEDGLFRILRGDNHCE
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UniRef90_Q6LAF8 UniRef90_H9JHZ8	NHAVENGIPY WIVKNSW
UniRef90_E3VXB8	I R I L G W G T P Y W L C A N S W N T D W G D N G L F K I L R G S D H V F G V E G G S N Y W L A A N S W G P N W G M S G Y F K L A Q G E G G L E N
UniRef90_D2VQZ9 UniRef90_J3KZ03	
UniRef90_A0A023FLA5 UniRef90_R4WDE0	GWGVDRSQYYWL <mark>C</mark> ANSWGNGWGENGYFRIVRGEDE VRIIGWGTDFWI <u>V</u> ANSWNTEWGEAGFFRIKRGLN A <mark>C</mark>
UniRef90_T1DIB0 UniRef90_Q8I7B2	
UniRef90_Q8MUI2 UniRef90_Q2NG83	VKII GWGKPYWL VANSWNTDWGDNGYFRI VRGTDNCE VCIVGWDDNYFII KNSWGTSSGENGYYYVSYYDESILNTC
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UniRef90_G1QBN4	F <u>E</u> V <u>V</u> KEDNKYWLVNNSWAREW WNQN <u>LLGM</u> NDPSDRPNT <mark>C</mark>
UniRef90_F6U2E9 UniRef90_UPI00038C2ABE	KLINETGEDYWIVKDGLGTTWETSGFFRVRRGTNE VLLVGYGLDYWIVKNSWGTNWGESGYFRIRRGTDE CALE
UniRef90_Q4CQ35 UniRef90_D6WYL5	V L L V G Y N D P Y WI I K N S WT A Q W G E D G Y I R I A K G S N V K I I G W G T P Y W L I A N S W G A K W A D D G F Y K I L R G K N H
UniRef90_D2VHJ1 UniRef90_Q9D6V1	GIDKSTGQKYWNIQNSWGKDWGMKGRGLVARGDN VLVVGYGRKYWLVKNSWGRDWGMNGYIKMAKDRNNN C
UniRef90_K3WHY7 UniRef90_H3ERA4	SLAVGFGEENEPV GWGVEDGTPYWLVANSWNVEWGEKGFFRILSGTNE
UniRef90_C1N4T3	A <u>V L</u> V G W G <u>R</u> P Y F <u>II M</u> K N S Y G A D W G E N G Y A R L D M G <u>F</u> D E A I G M <mark>C</mark>
UniRef90_A9VDM7 UniRef90_H3ABR0	G W G V E S G V D Y W W V A N S W N N D W G D N G F F K I K K G V D E V L I T G F D L P Y W I V R N S W G T T W G L D G Y V H L K M G E N
UniRef90_UPI000161C765 UniRef90_Q26742	V L I VG Y GTHY WI I K N V L L VG Y N P P Y WI V K N S W
UniRef90_T1CM74 UniRef90_Q3L7L1	YGVVGEEDWYWEFKNSFGEDHGDNGYMRMLRYKNGVSRSC VVNIGGWRHYWVVKNSWGRKWGMGGYGFVDAEENLF
UniRef90_P92005	I SLTGWGVDY WI ARNSWGEAWGELGWFRVK DGQGDQYNM LSLVGWGLDYWI YRNSWGTYWGQLGYALVQRGVN
UniRef90_D3AZW2 UniRef90_T0R2Q3	<u>E S </u> V E T Q T E Y W <u>G</u> R N S W G T <u>Y</u> W G E N G W F R K M <mark>H</mark> G D N
UniRef90_F3YVP7 UniRef90_E9FTR4	V T V G WE D G Y W K N S Y G T V F G E N G Y F H V S Y Y D Y <u>H S</u> V R V G W Y W L V A N S W G R L W G E D G Y F R V R G E N E
UniRef90_Q24946 UniRef90_U6P4H2	G V L V E A N S P Y W L V K N T W V K I G WG K Y WT I A N S WN T D WG E N G Y F R L R G V N <mark>H</mark>
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UniRef90_E5SC11 UniRef90_K7IZV7	I R I I G W G I P Y W I I A N S W N T T F G E K G F F R I R R G T N E C Y H S V G K P I K F W R V A N S W G R D W G E D G Y F R I V R G N N E C E
UniRef90_D8M2P1	<u>S</u> <u>S</u> V E D G Q K Y W <u>A</u> R N S W G T F W G E K G W <u>F R V </u> R G E N N
UniRef90_UPI000298CE38 UniRef90_Q9XZM8	VLVVGYGFKYWLVKNSWGANWGKHGYLLMAKDRDNH CHGVLVVGW
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UniRef90_L7FN83 UniRef90_A0A016WKG4	GYGVENYIPYFIVKNSYGSNWGEMGYLRVRADNN MC IKILGWGTDYWIVANSWNTNWGDNGFFRILRGTNH C
UniRef90_UPI00046ECD24 UniRef90_P43507	WEI VGWGSGGWI VKNSWGTEWGEKGYFTI AYGS GWGVENGVDYWL I ANSWGTSFGEKGFFKI RRGINE
UniRef90_R7W265	NHAVEFSEKFWIAKNSWSNDWGDQGYIYLAKDVFWPTGTC VTIIGYGKKYWLIKNSWGETWGEKGYMKVLRESSATGGQC
UniRef90_G7ILI5 UniRef90_B5MEZ7	G W G E E Y G V P Y W L M V N S W N D Q W G D K G L F K I R R G T N E C
UniRef90_A9JSF9 UniRef90_U6P5S6	G W G V E E G T P Y W L M V N S W N A Q W G D N G L F K I R R G T D E C G W G V E N G T K Y W T I A N S W S E D W G E N G Y F R V V R G L D N C Y L E S V R V I G W G R D Y W L V A N S Y N T D W G E D G Y F R I L R G E N H
UniRef90_A0A016TX82 UniRef90_J9JMG1	Y H SIVIRII VIG WY WI IA S N S W G S W W G E N G Y F R II L IK GIVID E C E
UniRef90_W5GJ81 UniRef90_J9JJZ8	LTAVGYGQDYII MKNSWGGGWGEQGYIRI KRGTGRPEGVC VRIVGWGEKYWI VSNSWGLWWGESGYFRI LKGTNE
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UniRef90_Q5DFQ0	GWGVEKGNPYWLIANSWNEDWGENGLFRMVRGRDE C
UniRef90_A0DZB1 UniRef90_UPI00039436D5	WEKVDHGVKFWLLQNSWGSQWGENGSFRMKRGVDESA VLAVGYGVNYWIVKNSWGEEWGNKGYLLMARNRGN LC
UniRef90_A0A016SYX8 UniRef90_P43508	VKVIGWGSQYWLVANSWNIDWGENGYFRIVRGTNN IRLLGWGTPYWLVANSWNVNWGENGYFRLIRGTNE
UniRef90_U6PM13 UniRef90_A0E1S5	VKMIGWGKDYWLIANSWHDDWGENGFFRMIRGIND VLCYGWGEKFWLLQNSWGEQWGEQGNFR <u>MK</u> RG <u>T</u> DESA
UniRef90_K7GXX3 UniRef90_Q25030	ARL LGWGQYYWLLANSWGKQWGENGTFRVLRGVNE GWGKDNGTDYWLIANSWHDDWGENGFFRMIRGINN
UniRef90_D0MWA1	I S I V G W G E P F W V L R N S W G S F W G E S G W M R L V R G V N N
UniRef90_D5E8V1 UniRef90_S0FWN6	VALIGWNDSFFIVKNSWGTESGDSGYLYISYY LVGWDDDEQVWILRNSWGPGWGEDGYMRISY
UniRef90_D8M0P0 UniRef90_D3BUP2	I SVVGWGEKYWLGRNSWGNYWGEEGWFRLARGLNN VTLTGYD
UniRef90_F3YU35 UniRef90_A0A016T0C2	VVIVGWDDNYFIIKNSWGTSFGEKGYFYVSYYD GWGRENGTDYWLIANSWNTDWGEDGYFRIVRGTDN C
UniRef90_K4BG43	U TOUR STEEL TO THE TOUR STEEL TOUR STEEL TOUR STEEL TO THE TOUR STEEL TOUR STEE

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UniRef90_U6NS85 UniRef90_A8PT54	GIE GIES
UniRef90_F6VL98	GVTRFAWF
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UniRef90_A8XTU1 UniRef90_A8XTU1 UniRef90_C0J3Z9 UniRef90_A0A016WKC1 UniRef90_W4G0J3 UniRef90_D3E2D2 UniRef90_W5K2W6 UniRef90_W4FNJ2 UniRef90_F9W5B1	L P D S F D WP N C P T I N E I R D Q G S C G S C WA F G A V E A I S D R V C V V P I S F D WP N C K S I K L I R N Q A Y C G A C WA F G A A E I I S D R I C I S C WS F S A I G N I E G Q WA A L P E K F D WP N C T S L K Y T R D Q S N C G S C Y A V S A A S V M S D R A C I L P K N F D WR N T N Y V T V S R N Q H Y C G S C WA F A A T S S L S D R L R I L P S H Y D L R E E G L V T A V K N Q G S S G A C WA F A F Y S A M E S Y L L K T S K D W T T S G C V N A V Q N Q G S C G S C WS F S S V C H G S V H C I L P E T F D W P H C P T I R E L A D Q S E C R A S W A V S T A S A L S D R Y C T
UniRef90_W5Q3N1 UniRef90_W5Q3N1 UniRef90_A6H5B0 UniRef90_T0RFC5 UniRef90_Q3U8J6 UniRef90_R6CHN1 UniRef90_A2FNP6 UniRef90_Q86GZ6	L P K S W D W R N V N G V N Y A R N Q H Y C G S C W A H G S T S A M A D R I N I L P V N F D W S Q C S T I G R I L D Q G H C G S C W A F G A V E S L S D R F C I E A A H C I L P S R Y N A A E H D L V T P V K D Q N P Y G T C W A F S A L S A C E T S M L R P F S F T W S H C S S L R V L R D Q S A C G S C W A F A A A F S L S D R L C L
UniRef90_U3K830 UniRef90_B5G358 UniRef90_E3MBJ4 UniRef90_T0QQQ5 UniRef90_M4CRK1 UniRef90_UPl000359B9EE UniRef90_D2W3C4 UniRef90_D2W1P7 UniRef90_D2W1P7 UniRef90 X2C0K2	L P R S WD WR N V N G V S T T R N Q H Y C G S C WA H G S T S A L A D R I N I L P D N F D WP N C P T I S E I R D Q G S C G S C WA F G A V E A L S D R I C V WP E C S S I P L I N D I S E C K S S WA F A A A E S M S D R L C I L P T A F D W C E Q G V C G P S W N Q H Y C G S C Y L H G A L S Q A Q D R I K I W D W R D Y G V L G P V I D Q R D Q A T C W A V A I V R V V Q A L L N I L P K A F D W R N V S G V N Y A R N Q H Y C G S C W A M G S T S A M A D R I N I L P S S W D W R N V S G V N Y T R N Q H Y C G S C W A H G S T S A L A D R I N I L P L T F D V R E K G C V F P A N N I M S C S A V G T F T I V D S I S D R F C I P A S L D W P E C K S I G I V R D Q S S C G S C W A V A S A S A M S D E L C V
UniRef90_K4DUT3 UniRef90_A4VE98 UniRef90_G4ZNC9 UniRef90_H9G4L9 UniRef90_F4PV15 UniRef90_Q26988 UniRef90_C1E7G2 UniRef90_D4KMA4 UniRef90_A7SGN5	L P S N F T WQ N V N Y L T L V R N Q H Y C G S C WA Q A A S S T L A D R I K I L P E N WD WR D Y N G T T S V L N Q M A C G S C WA F A T I S A L S D R I R I L P K S WD WR N V D G V N Y V R N Q H Y C G S C WA H G S T S A L A D R I N I L P T R Q N G I V P V P V D S R D C S A A Y A F V A A A I A Q T R V A M A F A T T Q C M E S I N A L L P T H V F W G D V N Y L T E T R N Q H Y C G S C W A M G T T A S L S D R I K I V P T S Y D L R T K N R T S E V R N Q G S Y G T C W S F A A L G A L E S S L L P L P T S F D W R D T N Y A S T T R N Q H I C G S C W A H G T T S A M A D R I N I
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UniRef90_UPI000457188F UniRef90_D8UM08 UniRef90_D8UM08 UniRef90_A9JSG6 UniRef90_A9JSG6 UniRef90_UPIMLT8 UniRef90_G3WJH4 UniRef90_T2M3T8	L P A R Y N L A E H G F V T E V K D Q Q A S G N C WA F A A L A S L E T C V L K WP H C K T I G E V H N D G N S L L S WA Y V P T G V F A D R M C I S V V G N I E G Q W F R L P T V F D W R N K D G V N Y A R N Q H Y C G S C W A F G A T S A L A D R F N I L P K A W D W R N V N G V N Y A R N Q H Y C G S C W A H G S T S A L A D R I N I L P T N V D W R N T N Y A S T T R N Q H Y C G S C W A H A T T S A L A D R I N I
UniRef90_W5MGM9 UniRef90_V4A7F7 UniRef90_D2W270 UniRef90_A0A024USE3 UniRef90_O46153 UniRef90_UPl0003D705C8 UniRef90_D3E4H1 UniRef90_F0YL72	LPREWDWRNTNYVSTTRNQHYCGSCWAHGSTSALLADRINI LPREWDWRNTNYCSPTRNQHICGACWSMATTSALLADRINI PTNFDSRQKWCVHTVRNQLDCGSCWAFSATKVLSDRFCI LPLSLDWCKDGYCVPSWNQHYCGSCYVHGALASVQDRIKI DQKNCAASWAFSTVAADRIAIQS KYFNLVDLGLVTPVKDQGDSGACWAFGGAAALESALLK
UniRef90_A9JSG2 UniRef90_V6LJD2 UniRef90_UPl0003510198 UniRef90_A8J8M1 UniRef90_D2VSR2 UniRef90_R7QVZ3 UniRef90_R7QVZ3 UniRef90_R7JZE3 UniRef90_R7JZE3 UniRef90 F0ZIL5	I P M K F D A R K K WI I G E V R D Q G N C G S D W A L S T S S A F A D R L C V V P D S W N W P K C S G P D T V R D Q A D C G S C W A F S A V N A D N R C I Q K V A T I E S L H Q I L P R D W D W R N R N Y L S P V T N M G G C G S C W A H G A A S V L A D R S N I V P A S Y D L R D K L R A P G V K D Q G N H G T C W A F A S L T A L E S S L L P P E R F D A R E Q W I I G T I R D Q S H C G S C W A V S A A A T M S D R L C V L P D T Y D S R E Q G A V T P I M D Q G V T G S C W A F A A I K A L E S D S I L I P D S Y D V R T T W C I S P I R E Q K S C G S C W A Q V S T G L L A D K A C I I P S Q F D S R K K W S I S Q I R D Q S R C G S C W A F G A V E A M T D R L C I I P S Q F D S R K K W S I S Q I R D Q S R C G S C W A F G A V E A M T D R L C I
UniRef90_C7TZJ9 UniRef90_A8XRB8 UniRef90_C5KQW0 UniRef90_UPl0003EAD38A UniRef90_UPl0003EAD38A UniRef90_A9JSF4 UniRef90_X1X5Q2 UniRef90_X2C0K4	I P S O F D S R K K WSI S QI R D Q S R C G S C WA F G A V E M A S D R T C I I P A S F D W P E C T QI G A V R D Q S D C G S A A H L V A V E M A S D R T C I L P N S F D A R D K D V I G H V W D Q S A C A S C WA I A P V E A F N A R L C L L P L T W D W R S K N Y V S I T R N Q H Y C G S C W A M G A T S A L A D R I N I L P K K F D W R H C T T I G K V R D Q G N C G S C W A L S T S S A F A D R L C V P E S F D W F N C T S I S H I W N Q G N C A A D W A I S V T S A M N D R I C I P E S F D A R D H W K I S Y I R D Q S A C G S C W A V S S A S A I S D R I C I

UniRef90_D1JA95 UniRef90_F6RZG4 UniRef90_Q18740 UniRef90_G8Z9T0 UniRef90_I7M301 UniRef90_A2EWP9 UniRef90_M3XE56 UniRef90_R5V5K7 UniRef90_R5V5K7 UniRef90_A8XTU1 UniRef90_C0J3Z9 UniRef90_A0A016WKC1 UniRef90_W4G0J3	50 60 70 80 GESVAYDFSEQSVALCVDDDPCNAGGWSGLASEVFIKKGS ATNNTQTFSPQEVVSCSQYAGCEGGFPFLIAGKYAHDFGV HLKKAMNLSEQEVCDCAPKHGGCNGGDPVDGLEYIKEMGL ASNQKVHISAQDILSCDRSQGCNGGYPDEAFEHYAQSGVV KRQNDFLLSPQVLISCNDDSNGCRGGSPQTAYEYILRNNI HSKGNFTVSIQQIMDCVWNEGHTGYDAYGKLAELQLNL LTNGHVNVEVSAECCGDQCGDGCNGGFPAEAWNFWTKQGL YNINDMDLSEEQVGYFLYTPDPQPLSPTYGDAIIQTKKGGG HTNGKVEISAEDLLSCCGFECGMGGGCSCRPYSILPPCEHH QSHQPLISVEDILSCCSSCGEGCKGGYPLEGLKFWMNSGV AGNPLTSLSEQWLVSCVFKNKGCGGGFMDNAFEWLVKGKV YRERNINLSPQVLLNCELESQGCHGGDGLSAYRYIHDHGI
UniRef90_D3E2D2 UniRef90_W5K2W6 UniRef90_W4FNJ2 UniRef90_F9W5B1 UniRef90_W5Q3N1 UniRef90_A6H5B0 UniRef90_T0RFC5 UniRef90_Q3U8J6 UniRef90_R6CHN1 UniRef90_A2FNP6	KTGTLLKLAEQQ KGKQLRISAAHLLSCCKDCGDGCKGGFPGFAWRYYVEYGIKRWPSTLLSVQHVIDCGDAGSCEG GNDLPVWEYAHRHGIHFDVNISLSVNDLLACCGCGSGCNGGYPLSAWRYLSNHGVATGTLLDVSEQDIVSCDRDDDGCNGGVEFTAMDWLSKQGINNSQTPLLSPQEVVSCSYAQGCDGGFPYLIAGKYAQDFGVKGLQNTSFDLSELADPDYMDVGGADACTMFALSKWTGAAA
UniRef90_Q86GZ6 UniRef90_U3K830 UniRef90_B5G358 UniRef90_E3MBJ4 UniRef90_T0QQQ5 UniRef90_M4CRK1 UniRef90_UPl000359B9EE UniRef90_D2W3C4 UniRef90_D2W1P7 UniRef90_X2C0K2 UniRef90_K4DUT3 UniRef90_K4DUT3 UniRef90_G4ZNC9 UniRef90_G4ZNC9 UniRef90_F4PV15 UniRef90_F4PV15 UniRef90_C1E7G2 UniRef90_D4KMA4 UniRef90_D4KMA4	H T N G K VQ V S A E D L L A C C H T C G H G C D G R C H C S S V A L Q G D G K R K G A WP L S VQ N V I D C A D A G S C E G G D H A G V WR Y A H E H G I H T N A K V S V S A E D L L S C C G C G M G C N G G Y P S G A WR Y WT E R G L N S G G M I D L S A Q E L L S C C T C G G G G C A G G N P L K A WQ Y WQ K H G I M H A K L G R Q S F L N C A P G H N L S N G C D G G E G L D V WR F M S D Y G L G V P Q Q L E L S I Q H I V N H V N F D A E R G L N N I R N A L S F M K S S G V K R K G A WP L S V Q E V I D C A N A G S C E G G D D K G V WK Y A S T S G I A R K G Q V L L S V Q H V I A C A D A G S C Y G G E D T P V Y Q Y A H D H G I A T G G K F K L S S Q Y M L E C D R D R Q G C Q G A V E S N L F S Y L E G N G T Q S N S T I K V M L S D T D I L S C C G D Y C G K G W T WQ A Y R W M M R D G V L V S C D N T N S G C G G G S P F R A F K W R N N G A V A Q W P D V V I A P Q V L V S C D E Y S N G C H G G D P R Y A H K W H H E N G I K K K G A W P L S V Q H V I D C G N A G S C E G G D D G A V W Q Y A H E H G I K R N V R P T V S V Q Q I I D C M N N N S G C V N G S L H D A L I Y I R D F G L R F K S L F S F S E Q N L V D C D P Q S N G C A G G S P F S A F M F I Q N G Q I A T F P E V I L A P Q V L I N C R A G G S C E G G D P A Q V Y E Y L A A H G I E S E Q Y S V D H M T L ON G F N M T Q N D G G E Y T M G M A Y L A A W K G P L R K G K W P L S V Q E V I S C D Q E L N G C S G A L Y Y A F K R L H D E G I D C G S S S G A L Y Y A F K R L H D E G I D C G S G S S G A L Y Y A F K R L H D E G I D C G S G S G S G S G S G S G S G S G S G
UniRef90_UPI00021A5FAF UniRef90_G8YY10 UniRef90_H1ZY45 UniRef90_B7FD68 UniRef90_Q26991 UniRef90_Q26991 UniRef90_G8YY09 UniRef90_G8YY09 UniRef90_K0BV31 UniRef90_G4ZQN6 UniRef90_G4ZQN6 UniRef90_M4B4D7 UniRef90_B5MEY7 UniRef90_C5KZK4 UniRef90_R5MGV5 UniRef90_R5MGV5 UniRef90_A8IQW0	MY DAFLY V VANDGV SCDAGCNGGLMTSAFKYTLKSGGL ARGNLVRLSEQNVIDCSVSYGNHGCQIYDAYQYILANEGV STGTLESYSEQNLVDCVTACYGCNGGLMDASYEYIVAKQG STGGKFNLSPEDVAFCCQNCGGCEGGYPIKAWQYFRTQGV AKGNFVSLSEQNIIDCSVSYGCGGGGMYDTFLYILALEGV ATNGNYNLSTEELISCSGKEREDGYVNRVLVWEYFKTHGL HSSQTKHFHFSALSCCDSCEKGCLGOHHLAWDHWVKHGI ADVMLGRQSFLNCAPGHGLSPGCDGGEAQDVYEFMRRYGL ADVMLGRQSFLNCAPGHGLSFGCDGGEAQDVYEFMRRYGL ATGGNEQLSAEKLTCCWTCGLGCQGGNPIKAWKYFKRRGIK KSGGKLNQLLSAADMLACCNIGHFCGNPITSWTFLHTNGIE EKSFDFSEDHMSIRNSFRMNQNDGGEYTMSMAYLLAWQGP
UniRef90_UPI0003FB7FFD UniRef90_UPI000457188F UniRef90_D8UM08 UniRef90_UPI00037996AC UniRef90_Q9BPL6 UniRef90_Q9BPL6 UniRef90_G3WJH4 UniRef90_T2M3T8 UniRef90_W5MGM9 UniRef90_V4A7F7 UniRef90_V4A7F7 UniRef90_A0A024USE3 UniRef90_O46153	E E S H D F S E D H M S L N N G F C P Q E E G G E Y T M S M A Y L S W R G P H S M G H M S L S P Q N L I S C D T N Q Q G C D G G R I D G A WWYL R R R G V A T G Q A L S F S E Q Q L V D C A W D Y G N D G C F V E P T L Q Y V V D A G G I A S N K T F N F S V E N M K N L I E M Y S A Y G W M E T N N G G Y N G M P M G A T N G T Y N L S T E E L I S C S G K E D E F G S V N D Y Y V W E Y L K N H G L K T G K L Q L S E Q Q L V D C D S M D H G C H G G N P I R A Y T A V K M M G G K R W P Q V Y L S V Q E V I D C G E S G S C E G G E P G G V Y A F A H S K G I K R W P S T L L S V Q H V I D C G D A G S C E G G N D F S V W E Y A N R H G I L R G G A F P L S V Q H V L D C A D A G T C H G G G N L A V Y E Y A H K N G I K R W P S A Y L S P Q H V I D C G D A G S C E G G D H S G V W Q Y A H T H G I K R W P S A Y L S P Q H V I D C G Q S G T C F G G D H R A V Y A Y A N Q H G L A S N G S V N M S P Q Y Q I D C N M D N L G C S G G S L P K T W N F L T N V G S M N A K L G R Q S F L N C A Y G H G L G E G C A G G E P G D V F E F M K R Y G L
UniRef90_UP10003D705C8 UniRef90_UP10003D705C8 UniRef90_D3E4H1 UniRef90_F0YL72 UniRef90_V6LJD2 UniRef90_UP10003510198 UniRef90_B2VSR2 UniRef90_R7QVZ3 UniRef90_R7QVZ3 UniRef90_R7QVZ3 UniRef90_R7JZE3 UniRef90_F0ZIL5 UniRef90_F0ZIL5 UniRef90_A8XRB8 UniRef90_C5KQW0	K G R Y T A N L S P Q N L I S C C K N R H G C N S G S I D R A WWF L R K R G L A T G V S L D I S E N N I Q S A G T E G G Y D Y T A L A Y Y L S W L G P N N S S A T G G A V A V P L S A Q D V C F N A N V D G C D G C A D W F A P H C H H H H G P A T N G D F N Q L E E I T F C C H K C G N G C N G G Y P I R A WK R F K N H G L L D K K R I Q L S E Q E I I E C D Q T P P D D D G C D G R W R L P S G G H E L G G Q R W P A A H V S L S E Q E I I E C D Q T P P D D D G C D G R W R L P S G G H E L G G Q R W P A A H V S L Q H L I D C S G G G S C R D G G D E V A A Y K Y A A E T G V L S T Q Y I L E C D T R D F G C N G G Y L N T E F E F E L K R G I E S Y D F S P D H M S I Q N S F A L N Q G D Y G G D Y T M S L A Y L L A D W Q G P Q S R G K F K L H L S D L A C C G T F C G G C E G G W P I K A W Q F I M R Y G V Q N L S A L D Y S E S H L Y W Y T G G Y Y N L G G N A Y Y A S Y I L A D W W G A Q T G G K V T L S P Q Y M M D C D G C N N G C K G G F V G K A F E F L I N N G V Q S G G G Q S A E L S A L D C C K D C G D G C K G G F P G Q A W D Y W V K R G I S N G T F N L S A Q D P L S C C G D G W G C D G S W E L N A W S F L K T H G L K S G G K F N L S A G E M A C C N S T H G C K G G M I L N A W S F L K T H G L
UniRef90_UPI0003EAD38A UniRef90_C1BLW5 UniRef90_A9JSF4 UniRef90_X1X5Q2 UniRef90_X2C0K4	KTWPSAYLSVQNVIDCGRAGSCYG GDHLGVYAYAHEKGI ATNGDFNQLEELTFCCHKCGYGCNGGYPLKAWERFKKHGL ASQGNITYSPQKLVSCCEDCGNGCSGGYTAAWRYILKKGI QLNGKIKIQASDLSCCEYCGYGCDGGWPLRAFEYLRGEGV

	90	100	110 120
UniRef90_D1JA95	NPY <mark>C</mark> GEN <mark>CVC</mark> I YPYLGKDTDK	D D <mark>C P P</mark> V K K V [OGYRLATNDGSQIEVI ZEYVGGYYGG <mark>C</mark> TPEKM
UniRef90_Q18740	YPFNVGRCESI YSTPFCSKKCI	E K Y D R E L N P [ELDYYAIDPFNAEYQ (QDK <mark>H</mark> FGMSVYNVQDI
UniRef90_I7M301 T D E T C	SPYTGRCMEC\	W P K V G	DDAYII IY WDQIVIK GEEDM
UniRef90_M3XF56 VSGGI	IY D S HIVIG C R P Y S	S II	(VTGCYQIMRDSSNKD YYGCNSYSVSNSEKEI
UniRef90_R5V5K7	Y L P Y H G C S G F I	H	A
UniRef90_A8XTU1 VTGGD UniRef90_C0J3Z9 YTEES	YNGTG <mark>CQP</mark> YTI	FPPCSSCEAS	AYTMISVQTKSERETI GYSPSYYNVPRSEKEI GKSTPSCQKKCQTGTI AVITGHVDIPQDEAAI
UniRef90_A040016WKC1	Y P Y Y G P C S N R	WPTPTCRKI	CQLGYFYIRANETYI YFVSEFGEVKGENEL
UniRef90_D3E2D2	D P F N A R S K IV IS I	P T N L T R V K Y L	_ IT D A IL IY II I <mark>P</mark> IL ID QII IK T A II
	YPYTSGSTGQ	T G A <mark>C</mark> K S <mark>C</mark> T K	(CHDFEELPKGEEKDL
UniRef90_F9W5B1	N N Y Q A K D Q E <mark>C</mark> I	D K F N Q <mark>C</mark> G T <mark>C</mark> 1	CSKYNFDT <mark>PKC</mark> NEEDY 「WKVGDYG <u>SL</u> SGREK <u>M</u>
UniRef90_A6H5B0 \overline{V} T E E \overline{C} UniRef90_T0RFC5 \overline{V} L A N D	DPYFDQTG <mark>C</mark> SI	H P G <mark>C</mark> W K K S K F	HYSVSAYKVKSNPHDI QSLALNSFDFALGEPA
	FPYTAKDSP <mark>C</mark> I	KPREN <mark>CL</mark> RY	Ý S S D Y Y Y V G G F Y N E A L L Q N V R Y V N G S D T A S L
UniRef90 A2FNP6 F S D	YPYTAODGOCI	K F D K M K GIVIG N	NTKGADGIVIF P TFFA
UniRef90_U3K830 PD E T	NNYQAKDQKC	KKFNQCGTC	/TFGE <mark>C</mark> HVIKNYTEKM
UniRef90_B5G358	Y D S H V G C R P Y S Y E S Q F G C K P Y S	SIPPCEHHVI SIAPCGKTI	NGTR GNVTYPP <mark>C</mark> LPNRQIEI AQ <mark>C</mark> FPVYG <u>NI</u> KGEHAM
UniRef90_T0QQQ5 P D E T C UniRef90_M4CRK1 C L E S R	CRSHGRORKNI	CTHOOHII IN Y F	HKIVIDGET HII IT DEEDAD
UniRef90_UPI000359B9EE PDETCUniRef90 D2W3C4 PDESC	N N Y Q A K D G E <mark>C</mark> ; N N Y K A V N Q D C ;	S	S
UniRef90_D2W1P7	PYSSGGGEVI YPYYGP <mark>C</mark> PDD	F D S <mark>C</mark> S T Q <mark>C</mark> K [T W P T P K C K K S	DGSPKRYKIKKGSVGS CHHKYYFVPNNETLI
UniRef90_K4DUT3	Y P Y H S <mark>C</mark> [_]G[_]K[[_	A T S G Y V T P S D E K R
UniRef90_G4ZNC9	N P Y \square A S H P S WI	M G G G D C A A T C	QCHTCFTTSEEFQLQA /TFGQ <mark>C</mark> HIVKNYTEK <u>M</u>
IUniRef90 F4PV15 MKESD	YPYTGASNGIVI	CKYDANKILI\	/ K G G Y M E F S D T G K Q N II
UniRef90_Q26988	Q A Y E A R D G K <mark>C</mark> I	<mark>C</mark>	GRIT GFMSVQQSEEDL DVDAVGWPVSNADKM
UniRef90_D4KMA4	D	D L T A <u>V </u> K H <u>V Q </u> N V F N K <mark>C</mark> G T <mark>C</mark> 1	M Q
UniRef90_UPI00021A5FAF <u>V</u> S D S <u>V</u> UniRef90_G8YY10 D T S S A	Y	<mark>C</mark>	/
UniRef90_H1ZY45	Y P Y T G K D G A T O	CKFEKSKI AA	A S A L N Y T V V S I D E D Q I E I S G S V E V K E G D E Y S L S V S K Y V N V A Q G D E D D L
UniRef90_Q26991	YVYTALDGTC	K F T Q Y T A V G S	SVSKYVNVAQGDEDDL GKNT <mark>C</mark> AGKPLERNHQ <mark>C</mark>
UniRef90 G8YY09 D G A N T	YTYRGYD	SRYRGAS	SISGSVSVKSGDESDL
UniRef90_J9JUS1	YNTNEGCQPSI YGSKEGCQPY	HLPPCEHHRA	T KILY K R T <mark>C V</mark> E Y <mark>C</mark> Y K DI A G K Q W Y A L A P H N E KI I M Y T P E S K T V P Q G E L A M
UniRef90_M4B4D7	LPYNATDHTPI	HCFP V TN VV F	RYR <u>A</u> KS <u>Y</u> G <mark>H</mark> L SGE L A <u>M</u>
UniRef90_C5KZK4 VSEKN	YGSNEG <mark>C</mark> APYI MKAADG <mark>C</mark> WPYI	N F P K <mark>C</mark> A H H Q k	K E S D Y K <mark>P C</mark> A K E I Y D T I
UniRef90_R5MGV5 UTFQD	DPY GDSV	WSPPGII ITPIVIE	RHVQEIQVLPKKDYEA KVKG <mark>C</mark> YRYIVTREEKL
UniRef90_A8IQW0	D P V G D G T S P D (N R G [] N A E K H W O E	RIYGWETVPATEGSL
UniRef90_UPI000457188F	Y P F S S T D N C P I	NPYSHSNEV	QSTPÄYRLSTNEKEL ARESGYLNIPSPOEAA
UniRef90_UPI00037996AC	LG PVN A TLD P	F D D S E I H V Q N	QSTPAYRLSTNEKEI ARFSGYLNIPSRDEAA NIYVLPARTSYTDNDA DHVKLKNHYDLEYEDL
IUNIKET90 USBPIB II IFII IS S	DYPYFAIGKK	RIVIII IS SKEKA	A Y IV IN A S IV IY II IS U S F A Y U
UniRef90_U1MLT8 P H E T C UniRef90_G3WJH4 P D E T C	N N Y Q A R D G K <mark>C</mark> N N Y Q A <u>K</u> D Q E <mark>C</mark> I	1	NPDD <mark>C</mark> FSIRNYTLYDK NEFQH <mark>C</mark> YFIKNYTEKM TFGK C FAVQNYTKEQ
UniRefan Wamana Phetic	NNYOAKDODCI	X	/IWKIVIGDYGPIVISGREKM
UniRef90_V4A7F7	N N Y Q A T T Q E <mark>C</mark> R P Y K N N D D D D	D	TTFGECETLQNYTLWI APSFYSYASIKGLDSL RYKVTEYGFLRGEDAM
UniRef90_A0A024USE3 P D E T C UniRef90_O46153	LPYNAT DFT K	Y C F A VT K V V F	RYKVTEYGFLRGEDAM FDTGYVDVEHGSESAL
UniRef90 UPI0003D705C8 VSHAC	YPRHATKP <mark>C</mark> PI	N S F E K S N R II \	QCSPPYRVSSNETEI /IFLDPANTSSIKDGL
UniRef90_F0YL72 R G D D P	YPAEGDAGCP	S E K S P E G P K A	A C D A G D V Q T A S G E A A L D G K N T C S G Q P M E S N H K
UniRef90 V6LJD2 VIT D K C	T P Y T S GIL IS G R I	D G K <mark>C P</mark> Q K C K	
UniRef90 A8J8M1 PPETC	SPYIVIAMDHGA(CCYTCWPHCF	A K I R G F E V V D P N S E E A R P V T A F P R L T V S E Y G Q
UniRef90 D2VSR2 PTFKC	IVIP Y S AIVINGTII I	ANCPSKCVVI	YKTKAVQNLTGEHDM /QLIGSKDFQKLKEAV NQMYYGE <mark>C</mark> PPRDEKKL
UniRef90_R7JZF3 VIS_FD_K	APFSADTNOTII	IRKMRTESEN	/
UniRef90_F0ZIL5	LSYKASKDDS EENHTGCOPY	CPQSCDDGT PFPKCFH	F S N Q T K F R A S S C Q D A
UniRef90 A8XRB8 CTGGN	YDDQFG <mark>C</mark> KPY	S Y	HFGKAHYNVGKKMTDL KKSKY <u>E</u> P <mark>C</mark> SKKLYDDN
UniRef90 UPI0003EAD38A	G K A Y T <mark>C</mark> I	+ G E K E H R F A \	/ F
UniRef90 A9JSF4 VIT G G E	YKSGEG <mark>C</mark> EPYI	RIVI <mark>P P C P</mark> Y	WKVGDYGEVSGRDKM
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UniRef90_D1JA95	130 KNAVYSHGPVTMAYSHSESGEYWNWGTTYDLYPCNDSVPH
UniRef90_F6RZG4 UniRef90_Q18740 UniRef90_G8Z9T0 UniRef90_I7M301	MEDLVAFGPIAVGIEVYPDFQQYKSGIYHHYNPFELTNHA MTHHLYNLPISVAFRTGASLSSYLSGILELADCDDEKGGH QYEIMNNGPVEANMIVYYDFMFYKSGVYQTVFPWPLGGHA QQEIFNHGPISCVINSTEDFRNYTGGILNPPDSPVQITHS
UniRef90_A2EWP9 UniRef90_M3XE56 UniRef90_R5V5K7	QQEIFNHGPISCVINSTEDFRNYTGGILNPPDSPVQITHS LRALYKYGPLMIYIRAGTAPFVAYTGGSFNNHEVCGGIDD MAELYKNGPVEAAFSVFSDFLQYKSGVYQHVTGEMMGGHA KKRMMQNGGIYVAFHSDGANYYDNYAYYQSDSSYYSANHA
UniRef90_K7F689 UniRef90_A8XTU1 UniRef90_C0J3Z9	MAEI YKNGPVEGAFSVYEDFLMYKSGKRGRDVPGGARSWGQTEI YNNGPVEVSYRVFEDFYQYKSGVYHYVSGKLTGAHAAKYLADNGPVAVAVDAT SFMSYSGGVVTSCTSEQLNHA
UniRef90_A0A016WKC1 UniRef90_W4G0J3 UniRef90_D3E2D2 UniRef90_W5K2W6	MHEIFTRGPVVATYDVYKDFNYYRKGIYIHKDGGRPTGSH KAELFARGPIVCGVAVSKEFLDYSGGIIDDKTGATDIDHD LKYGAIFVPVYSNIIYSDLQYICNHAVAIVGWDDNYSASN OKAVVAVGPVSVAIDSSNKTFIIYQSGLYNFPYCSSYNVN
UniRef90_W4FNJ2 UniRef90_F9W5B1 UniRef90_W5Q3N1	LKYGAIFVPVYSNIIYSDIQYIONHAVAIVGWDDNYSASNQKAVVAVGPVSVAIDSSNKTFLLYQSGIYNEPYCSSYNVNQALAIGSSPVSVTVEAGNNVWKNYKSGVVSVCPGSQSDHAKRELYFNGPFVAVFYVYTDLFAYKSGVYRHVDGDFLGGTAMAELYANGPISCGIMATEKMSNYTGGIYSEYNNQAYINHAMAEVYKNGPVEVAFTVYEDFAHYKSGVYKHVTG
UniRef90_A6H5B0 UniRef90_T0RFC5 UniRef90_Q3U8J6	MAEVYKNGPVEVAFTVYEDFAHYKSGVYKHVTG LEAALAVQPVAVEVEAANFAWMLYKDGIVTECPGNDVDHV MELELVKHGPMAVAFEVHDDFLHYHSGLYHHTGLSDTNHA KRLILQYGSVSAPLCVNLKKYYSKSTGAYYCNNNTGTNHQ
UniRef90_R6CHN1 UniRef90_A2FNP6 UniRef90_Q86GZ6 UniRef90_U3K830	LAKAVTNGVVTISINASQHSFHLYSSGIYYEPACSSTDHA KTDIYKNGPVESAFFVYADFPSYKSGVYQQHMIKFMGVHA MAELYKNGPLSCGIMATEKLDAYTGGLYKEYNPSPTVNHA
UniRef90_B5G358 UniRef90_E3MBJ4 UniRef90_T0QQQ5	QSDVMLNGPVEATMELYDDFLQYTTGLYVHLAGNKQGHLS MKELLNGPLTCGLACSDGFTFNYSAGLFNDTTGFMDVDHD
UniRef90_M4CRK1 UniRef90_UPI000359B9EE UniRef90_D2W3C4 UniRef90_D2W1P7	LEDIVRRQPVIGLIPINAELHYYDFGIYQHDRTTDPADPA KAEIYKNGPISCGIEATDTLEKYTGGIYDYPAINHIISVA MSEIYARGPISCGIDATSALEAYTGGIFAQYREDPSINHI LDIITDMQRDIMKYGSITAGFKMYFGVYQHLDQDIGSFSS
UniRef90_X2C0K2 UniRef90_K4DUT3 UniRef90_A4VE98	RREI FKNGPVI AAFFVHFDFSFYRGGVYVI AGGLPII GAHA AAVL AVKGPL SVAVDAS SWMPYTGGVLTN <mark>C</mark> VSKKLDHA MQEII FNRGPII A <mark>C</mark> YII YATEYLRYNYTGGII YNDTSSYPGTNH
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UniRef90_UPI00021A5FAF UniRef90_G8YY10 UniRef90_H1ZY45	OSAVANVGPI AVAVDASSNAFRYYSKGVYSSSR <mark>C</mark> SSTOLIT
UniRef90_B7FD68 UniRef90_Q26991 UniRef90_B5MEY6 UniRef90_G8YY09	A A N L V K F G P L A V G I N A V F M Q T Y I G G V S C P Y I C S K R L L D H G M A A V A N A G P V A V G V D A S S K A F R Y Y S S G I Y N L P G C S S A S K C E T Y G P L A V A I D A S N W S F Q L Y S G G I Y D E K S C S S Y D H G M E Q D L I K Y G P I E A S F N L F D D L S A Y K S G I Y D K S C T S T S L N Q K E V Q T Y G P V S V F F D L H D D L F L Y K S G V Y A K T E K S K D K R Y H
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UniRef90_A9JSG6 UniRef90_Q9BPL6 UniRef90_U1MLT8 UniRef90_G3WJH4	A Q Y L M Q H G P L S S A L N A A G L Q H Y K G G I I H Q P R C N P M G I N H G M K A E I Y H N G P I A C G I V A T K A F E K Y S G G I Y K E E T S G P I D H I M A E L Y A N G P L S C G I M A T E G M D N Y T G G L Y Y E Y N S R P M I N H G
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UniRef90_D2W270 UniRef90_A0A024USE3 UniRef90_O46153 UniRef90_UPI0003D705C8	MY EI QNYGPVH A SLITVY K DILMSY QS GVY S HLT GN EI GGH A MA E L LNGP I T CGI A A A I DF MENY T A GLYI DR SN A V DLDH D MK A V A T I GP I SVGI DA SR PTF H FY H D GVY S DK T CS S T HVG MR E I I QNGPVQ A I MQVH E DF FYYKT GI YR HVVS T N E E T H A LKYGALSASANGADSDSNDF FN E K TYAQY CND DE A SANH I
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UniRef90_V6LJD2 UniRef90_UPI0003510198 UniRef90_A8J8M1	LEAAWA OORWAWI WAARA MED HYKECMED CRCCD
UniRef90_D2VSR2 UniRef90_R7QVZ3 UniRef90_X2C0K7 UniRef90_R7JZE3	MKAEI YARGPISCGIASSKGVQAYKGGWYAEYRERPQVSH QQAI LQGGSIMTELDMYQDFLYYSSGVYQHSANKFVVRII FKYGGVQTSIYSALKSSHSEFYNSKTKAYCYMGQDKPNHD RVEIMKNGPVQAGYFVYEDFRLYNGGIYKHKTGKQTGGHA IKEAVMEHGSVDVSVYFDPSNMYHTSAYESTHDSEDANHC
UniRef90_F0ZIL5 UniRef90_C7TZJ9 UniRef90_A8XRB8	QVELMTNGPVVATLMLYDDFKPYKWLYVKGENAKTVESHA
UniRef90_C5KQW0 UniRef90_UPI0003EAD38A UniRef90_C1BLW5	I K K E I MT N G P T S A T F S V Y E D F V S Y K S G V Y K H T N G T L M G I H L G P A V A R Q P V T V Y V D A S G P A F Q F Y S S G V F P G P C G C G T G G E K A E L Y T N G P L S C G V M A T A G L E A Y T G G L F A E F H A L S L M N H G
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C G C C Y A Y G P L K A M S H R I C K

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