

	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	20
39976931.y	FEILRPLTGCSFGRVHLVOSRHN	GREYAVKVLKKQCVVKM	KQVEHINDERKLKGIV	KNPFLIHDWETFQD	-CRNLYMVMDFV	GELFSLRLRSGR	FENPVAKFYAAEV	LALEYLHAK	-NIIYRDLR	PENILLDRH	GHLKITDFGFAKVP									
32411229.y	FEILRPLTGCSFGRVHLVOSRHN	SREYAVKVLKKQCVVKM	KQVEHINDERRMLABV	KNPFLIHDWETFQD	-AKNLYMVMDFV	GELFSLRLRSGR	FENPVAKFYAAEV	LALEYLHSR	-DIIYRDLR	PENILLDRH	GHLKITDFGFAKVP									
63226827.y	FQIIRPLTGCSFGRVHLRHN	GREYAMKLKKITIVKL	KOVEHINDERRMLSV	SHPFLIRMWETFQD	-SQVYFVMMDY	EG	GELFSLRLRSGR	FENPVAKFYAAEV	LALEYLHSR	-DIIYRDLR	PENILLDRH	GHIKITDFGFAKWP								
6322297.y	FQIIRPLTGCSFGRVHLRHN	GREYAMKLKKITIVKL	KOVEHINDERRMLSV	SHPFLIRMWETFQD	-AQQIFMMMDY	EG	GELFSLRLRSGR	FENPVAKFYAAEV	LALEYLHSR	-DIIYRDLR	PENILLDRH	GHIKITDFGFAKWP								
6325053.y	FQIMRPLTGCSFGRVHLRVHN	GYIYAIKVLLKKCVVKM	KOVEHINDERRMLKIV	EHPFLIRMWETFQD	-ARNIFMVMDF	EG	GELFSLRLRSGR	FENPVAKFYAAEV	LALEYLHSR	-NIIYRDLR	PENILLDRH	GHIKITDFGFAKVP								
19111951.y	ENFIRPLTGCSFGRVHLVOSRHN	RLYAYAIKVLLKKIV	KOVEHICDERMLLSRV	CHPFLIRMWETFQD	-AKNLYMVMDF	EG	GELFSLRLRSGR	FENPVAKFYAAEV	LALEYLHSR	-NIIYRDLR	PENILLDRH	GHIKIVDFGFAKVRST								
23613859.z	ENFIRPLTGCSFGRVHLVATKNG	NYppVKAIRKEFKIIRO	KODHVEINERKLINNI	RPHCVLNLHESFKD	-ASYLVLVLEFW	FG	GELFTSLRLRSGR	FENDVCGFVAAQIVL	IHEYSL	-NIIYRDLR	PENILLDRH	GFIKMTDFGFAKAK								
83511632	C-SEIK-	LVCORG	SDKIKSKRKEYTKRVDL	TKEHVHFDKEDLMKLS	-GTCVPEBLICP	DQ	SYIICILLNCCLC	CSPASHI	Hap											
25151367.w	DERIKPLTGCSFGRVHLARKI	TGAHYALKVLNTRVDM	RDQHVNEDKRVLKG	RHPFLVYMAKSEKD	-SNHLYMIME	FG	GEMPSYLRASRS	FENPVAKFYAAEV	CALEYLHSR	-FENPVAKFYAAEV	CALEYLHSR	GHIKADDFGFAKEL								
17567857.w	DERIKPLTGCSFGRVHLARKI	TGAHYALKVLNTRVDM	RDQHVNEDKRVLKG	RHPFLVYMAKSEKD	-SNHLYMIME	FG	GEMPSYLRASRS	FENPVAKFYAAEV	CALEYLHSR	-FENPVAKFYAAEV	CALEYLHSR	GHIKADDFGFAKEL								
31240527.i	TIGTICGDFGRVCLCRK	TNXYAMKILAMADVIRL	KOIEHVNEKNEKNLQEI	CHPFLVNRNSK	-DCCLYMDE	FG	GELFSYLRNAGR	FDSANFNYACEIVL	ALEYLHSR	-FDSANFNYACEIVL	ALEYLHSR	GHIKIVDFGFAKAK								
28574900.f	YQIIKIVGDFGRVCLCRK	SEKCYAMKILAMTEVIRL	KOIEHVNEKNEKNLREI	CHPFLVNRNSK	-DSNLYMIFD	FG	GELFTYLRNAGK	FTSQISPNYAEIVL	ALEYLHSR	-FDSQISPNYAEIVL	ALEYLHSR	GHIKIVDFGFAKAK								
24664872.z	YQIIKIVGDFGRVCLCRK	SEKCYAMKILAMTEVIRL	KOIEHVNEKNEKNLREI	CHPFLVNRNSK	-DSNLYMIFD	FG	GELFTYLRNAGK	FTSQISPNYAEIVL	ALEYLHSR	-FDSQISPNYAEIVL	ALEYLHSR	GHIKIVDFGFAKAK								
23956080.m	LDHTATVTCDFGRVNLVKLKG	RCYCALKIMSIPIVIRL	KOIEHVNEKNEKNLQEI	DHPFLIKLQ	-RPELYM	FG	GELFTYLRNAGR	FSSVAFVYAEIVL	ALEYLHSR	-FDSVAFVYAEIVL	ALEYLHSR	GHIKLTDFGFAKAKL								
PRKY.h	CDPHTATVTCDFGRVNLVKLKG	AKHFEVNLVKLKG	KOIEHVNEKNEKNLQEI	DHPFLIKLQ	-RPELYM	FG	GELFTYLRNAGR	FSSVAFVYAEIVL	ALEYLHSR	-FDSVAFVYAEIVL	ALEYLHSR	GHIKLTDFGFAKAKL								
PRKX.h	CDPHTATVTCDFGRVNLVKLKG	AKHFEVNLVKLKG	KOIEHVNEKNEKNLQEI	DHPFLIKLQ	-RPELYM	FG	GELFTYLRNAGR	FSSVAFVYAEIVL	ALEYLHSR	-FDSVAFVYAEIVL	ALEYLHSR	GHIKLTDFGFAKAKL								
39970731.y	FKKURPLTGCFGRVCLVRLQ	QTEPQVFLKILKREBVKL	KODHVNEDKRVLKG	EDPFLVYMLA	-HDFIVL	FG	GELFTYLRNAGK	FVYDARPFYAAEV	LALEYLHSR	-FVYDARPFYAAEV	LALEYLHSR	GHIKIVDFGFAKAK								
32408763.y	FEPIKPLTGCSFGRVHLVLP	PANGTiDQKVYALKILR	KOIEHVNEKNEKNLQEI	EDPFLVYMLA	-HDFIVL	FG	GELFTYLRNAGK	FVYDARPFYAAEV	LALEYLHSR	-FVYDARPFYAAEV	LALEYLHSR	GHIKIVDFGFAKAK								
31224299.i	YEILRPLTGCSFGRVHLVLP	SCFCAFAMILS	KOIEHVNEKNEKNLQEI	EDPFLVYMLA	-HDFIVL	FG	GELFTYLRNAGK	FVYDARPFYAAEV	LALEYLHSR	-FVYDARPFYAAEV	LALEYLHSR	GHIKIVDFGFAKAK								
28572002.y	YEITRAVLGNNSFCFHVLMVLRKSG	KNNYAMKMSKEDL	KOIAVHNEKEVVLNAAA	EDPFLVYMLA	-IDYLYL	FG	GELFTYLRNAGK	FVYDARPFYAAEV	LALEYLHSR	-FVYDARPFYAAEV	LALEYLHSR	GHIKIVDFGFAKAK								
17864122.f	YEITRAVLGNNSFCFHVLMVLRKSG	KNNYAMKMSKEDL	KOIAVHNEKEVVLNAAA	EDPFLVYMLA	-IDYLYL	FG	GELFTYLRNAGK	FVYDARPFYAAEV	LALEYLHSR	-FVYDARPFYAAEV	LALEYLHSR	GHIKIVDFGFAKAK								
24651482.f	YEIKATLGCSFGRVHLVLPRE	SGVYYASAKI	KDPSKDCIVKTT	KQVSHVMSKCNVLR	-EDFP	NV	IASYKD	FDSLYLVL	P	FG	GELFTYLRV	FDSKCARFYAAQV	QDLYRDLR	PENIMMKDN	GHLKVTDGF	FAKAKV				
31242643.i	PERIKPLTGCSFGRVHLVLPRE	TKDQYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
24583100.f	PERIKPLTGCSFGRVHLVLPRE	TKDQYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
17136902.f	PERIKPLTGCSFGRVHLVLPRE	TKDQYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141290.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141292.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141310.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141294.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141308.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141306.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141296.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141302.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141298.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141304.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
25141300.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
17508225.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
17508227.w	FDRIKPLTGCSFGRVHLVLPKQ	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	V	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
34851459.m	ST	SHRY	-DMEVVK	LKOIEHVNEKNEKNLQAI	-DFFPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
27807057.m	FERIKPLTGCSFGRVHLVLPME	TGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
PKACa.h	FERIKPLTGCSFGRVHLVLPME	TGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
PKACg.h	FERIKPLTGCSFGRVHLVLPME	TGYYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
34861056.m	FERNPLTGCSFGRVHLVLPME	TCYYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
6755076.m	FERNPLTGCSFGRVHLVLPME	TCYYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
34861059.m	FERNPLTGCSFGRVHLVLPME	TCYYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
27807059.m	FERIKPLTGCSFGRVHLVLPME	TCYYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
PKACb.h	FERIKPLTGCSFGRVHLVLPME	TCYYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
7110693.m	FDRIKPLTGCSFGRVHLVLPK	SCNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
113r_PKACa	FDRIKPLTGCSFGRVHLVLPK	SCNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
1jlu_AMPK	FDRIKPLTGCSFGRVHLVLPK	SCNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
38086991.m	MLV	SGNYAMKIL	KDVKVVKL	KOIEHVNEKNEKNLQAI	-SFDPFLV	BLKF	SF	GEMSHL	SRV	GR	FDSPEP	SRFYAAQV	LALEYLHSQ	DLYRDLR	PENLID	SRV	GHLKVTDGF	FAKAKV		
23509614.z	YIIILEKINTGSVGVALKN	TDTIVPLVAKT	DKDPSKDCIVK	IGLEKPL	-LKDQ	IO	IMEY	CDA	GDLISV	VNRKLY	ND	LDE	TAQYF	IVL	PEVY	QV	LALEYLHSQ	ND	eK	
17564910.w	YSKRDLLGCAFVAKVYGRV	YGRVDR	TDVVPLVAKT	DKDPSKDCIVK	-LKDQ	1	LN	HEN	IVL	BLK	C	TD	IV	PLV	QV	LALEYLHSQ	ND	eK		
31982530.m	YCKRDLGCAFVAKVYGRV	YGRVDR	TDVVPLVAKT	DKDPSKDCIVK	-LKDQ	1	LN	SVF	BLK	Q	EG	TD	IV	PLV	QV	LALEYLHSQ	ND	eK		
ULK2.x	YCKRDLGCAFVAKVYGRV	YGRVDR	TDVVPLVAKT	DKDPSKDCIVK	-LKDQ	1	LN	SVF	BLK	Q	EG	TD	IV	PLV	QV	LALEYLHSQ	ND	eK		
40254402.m	FSRKDPLTGCSFGRVHLVLPK	YQDQIAKIL	DKDPSKDCIVK	QTPFLV	-HDFIVL	FG	DSVFL	YDQF	SV	YV	MV	TD	IV	PLV	QV	LALEYLHSQ	ND	eK		
34872996.m	FSRKDPLTGCSFGRVHLVLPK	YQDQIAKIL	DKDPSKDCIVK	QTPFLV	-HDFIVL	FG	DSVFL	YDQF	SV	YV	MV	TD	IV	PLV	QV	LALEYLHSQ	ND	eK		
ULKL1.x	FSRKDLGCAFVAKVYGRV	YQDQIAKIL	DKDPSKDCIVK	QTPFLV	-HDFIVL	FG	DSVFL	YDQF	SV	YV	MV	TD	IV	PLV	QV	LALEYLHSQ	ND	eK		
25144850.w	YEKCRFLGKGCFGRVHLVLP	TCYYAMKIF	TDVVF																	

28573941.f PRLISVLQRGPFCKVILKNSDPRS NNQCYAALKAKKKDIIARL DEVEISLSKRIFEVANAA-mgHPFLVNLNLYSFCQT -QHCPVCFMEYSAAG GDIIMMIIHHIDDV FIEPRAVYFAACVVLGLOYLEHEN KIYRDLKDNDNLLDTE GVKVIAADFGLCKEISMG
28573939.f PRLISVLQRGPFCKVILKNSDPRS NNOYALKAKKKDIIARL DEVEISLSKRIFEVANAA-mgHPFLVNLNLYSFCQT -QHCPVCFMEYSAAG GDIIMMIIHHIDDV FIEPRAVYFAACVVLGLOYLEHEN KIYRDLKDNDNLLDTE GVKVIAADFGLCKEISMG
25146933.w PRLISVLQRGPFCKVILKNSDPRS TSNYALKVILKKDIIARL DEVEISLSKRIFEVAS -axPFLVNLNGFCQT -PEHCPVCFMEYSAAG GDIIMRHHIDDD FIEPRAVYFAACVVLGLOYLEHEN KIYRDLKDNDNLLDTE GVKVIAADFGLCKEISMG
32813439.w PFKELAVLQRGPFCKVILKNSDPRS SCELFAIKAKKKDIIARL DEVEISLSKRIFEVANAA-mgHPFLVNLNLYSFCQT -QHCPVCFMEYSAAG GDIIMLHHHSDDV FIEPRAVYFAACVVLGLOYLEHEN KIYRDLKDNDNLLDTE GVKVIAADFGLCKEISMG
PKN1.h 8394047.m PFKELAVLQRGPFCKVILKNSDPRS SCELFAIKAKKKDIIARL DEVEISLSKRIFEVANAA-mgHPFLVNLNLYSFCQT -QHCPVCFMEYSAAG GDIIMLHHHSDDV FIEPRAVYFAACVVLGLOYLEHEN KIYRDLKDNDNLLDTE GVKVIAADFGLCKEISMG
30520013.m PRCCAVLQRGPFCKVILKNSDPRS TNEFAIKAKKKDIIARL DEDEVSMCCKRIFETVNS -vGPFLVNLNFCAGFOT -KEHCPVCFMEYSAAG GDIIMMIIHHIDDV FIEPRAVYFAACVVLGLOYLEHEN KIYRDLKDNDNLLDTE GVKVIAADFGLCKEISMG
34860837.m PRCCAVLQRGPFCKVILKNSDPRS TNEFAIKAKKKDIIARL DEDEVSMCCKRIFETVNS -vGPFLVNLNFCAGFOT -KEHCPVCFMEYSAAG GDIIMMIIHHIDDV FIEPRAVYFAACVVLGLOYLEHEN KIYRDLKDNDNLLDTE GVKVIAADFGLCKEISMG
PKN2.h PRCCAVLQRGPFCKVILKNSDPRS TNEFAIKAKKKDIIARL DEDEVSMCCKRIFETVNS -vGPFLVNLNFCAGFOT -KEHCPVCFMEYSAAG GDIIMMIIHHIDDV FIEPRAVYFAACVVLGLOYLEHEN KIYRDLKDNDNLLDTE GVKVIAADFGLCKEISMG
25146791.w PDEFLVKLQGKGFCKVILKNSDPRS SDLYALKIILKKREMKVVDR EEEAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEFAIC GDFLYMVPKRVREVQmkeG FIEPARFVYFAESEIILALCQYHLR NIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
25145933.w PDEFLVKLQGKGFCKVILKNSDPRS TOKLYALKIILKKDIIARL EEEAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEFAIC GDFLYMVPKRVREVQmkeG FIEPARFVYFAESEIILALCQYHLR NIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
175557832.w PDEFLVKLQGKGFCKVILKNSDPRS TOKLYALKIILKKDIIARL EEEAHLDENRVLQRCRKEPTEKYSFQT -CHYCPVMQFANG GELFTTHVRKGCGT FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
31198165.i PFEFLVKLQGKGFCKVILKNSDPRS SSLYALKIILKKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
24647360.f PFEFLVKLQGKGFCKVILKNSDPRS TAKLYALKIILKKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
24647358.f PFEFLVKLQGKGFCKVILKNSDPRS TAKLYALKIILKKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
13928778.m PFDYLKLLKGKGFCKVILVLRKEKA SGRYAMKILKKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
6753032.m PFDYLKLLKGKGFCKVILVLRKEKA SGRYAMKILKKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
AKT3.h PFDYLKLLKGKGFCKVILVLRKEKA SGRYAMKILKKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
6753034.m PEYMLLKGKGFCKVILVLRKEKA TGRHYAMKILKKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
AKT1.h PEYMLLKGKGFCKVILVLRKEKA TGRHYAMKILKKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
27806747.m PEYVYLKGKGFCKVILVLRKEKA TAAYAMKILKKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15100164.m PEYVYLKGKGFCKVILVLRKEKA TGRHYAMKILKKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
37700244.d PFDYLKLLKGKGFCKVILVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
AKT2.h PFDYLKLLKGKGFCKVILVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
6680674.m FDYLKLLKGKGFCKVILVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
8392888.m FDYLKLLKGKGFCKVILVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
52520008 LRFRLRLES-SDICSVPLAABKSLTavkpljLAALKVADKKELASR NDKRKELECR NKEGRATREIRELAEVD PFLRFLGVAEES -GRWCLSKLEFPCG GDHVLRORPHR FESAVRFYFAEVEVYLRLM DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
30692190.p LRFRLRLES-SDICSVPLAABKSLTavkpljLAALKVADKKELASR SKGRAKTRERIELESD PFLRFLGVAEES -GRWCLSKLEFPCG GDHVLRORPHR FESAVRFYFAEVEVYLRLM DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15225776.p PFLRVRLES-SDICSVPLAABKSLTavkpljLAALKVADKKELASR SSAYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
AK101660 PFLRVRLES-SDICSVPLAABKSLTavkpljLAALKVADKKELASR SSAYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVILALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
AK106290 PFLKVRJGCGEDICCVYICRURSSerPSPCMAMKVKDRRAVPLK QKLGRAAAEKKRILRQD PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSPARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
74030009 PFLKVRJGCGEDICCVYICRURSSerPSPCMAMKVKDRRAVPLK QKLGRAAAEKKRILRQD PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSPARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15226800.p PFLMRJGCGEDICCVYICRULADEeRSYFAMKVKDRALALK KKHMRAREMKT KHLKMD PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15231840.p PFLKLRHGTCTNLGRVETLNRD CNTPLCALKVADKKELASR SSARFALKVMDRNLKITEE KKLSONENPAEILSLSR PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15220907.p PFLKVRJGCGEDICCVYICRULADPLCNRD CNTPLCALKVADKKELASR KIISHLRQKPN PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
71430020 LHLTRBLCHMLARVPLCRLKSS -pASLFLALKVMDRDDPS RVTWLABSRVLSSLR PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
30450014 RAFLVLRQGMCVHPLFVLEPRY -GGFVYALKVDEKRSAAATR HDAERARLMSLVSRLA PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
3650006 VRAVPLRQGMCVHPLFVLEAAAADagGAGCAYALKVDEKRSAAATR qGDAARRMSVPLSRLA PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
83523772 IRAWSMRJGCKWVFPVFAAA -gEEEASMALWKVSEAAHRKngy edgHRRWPLPDRVLMsLR PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15230825.p DEVLSLGRGKGSVFLVLRDD -AKUJALKVILKKEIREEKKkgreese DDEYKNSRQEFGVLSRDF PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15235548.p IFLPSALRQSKCQKWLVPLKAD -NKJALWKLKRESEISKK PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
18403402.p IFLVNLKGKGFCKVILVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15232374.p IFLKLLKGKGFCKVILVLRKEKA SSSPEFAVVLKPKSSASSL SSSPEFAVVLKPKSSASSL PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FSSSVIRFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
AK107126 PFLKLLKGKGFCKVILVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
AK065005 PFLKLLKGKGFCKVILVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15242814.p PFLNLLKGKGFCKVILVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
30693721.p PFLNLLKGKGFCKVILVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
30693719.p PFLNLLKGKGFCKVILVLRKEA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15227639.p PFLNLLKGKGFCKVILVLRKEA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15242554.p PFLNLLKGKGFCKVILVLRKEA MCGCFAMVKDCKMLLGR PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15219253.p PFLVLRJGCGEDICCVYICRULADPLCNRD TITYFAMVKMDKASLCSR PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15219322.p PFLVLRJGCGEDICCVYICRULADPLCNRD TNAVFAMVKMDKASLCSR PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15230566.p PFLVLRJGCGEDICCVYICRULADPLCNRD TNAVFAMVKMDKASLCSR PFLPITLADFEA -tHFSCAVMEFPCG GDHLSLRHMPSSRR FLPSSARFYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
83511682 PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
AK107045 PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
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AK101944 PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
83020012 PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
30689844.p PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15238798.p PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15241076.p PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
15236802.p PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
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AK100261 PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
AK100536 PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
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AK070835 PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
AK065447 PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
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30697007.p PFLVLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
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39978255.p PFKLRLKIGCKDTSVPLVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
10383810.y PFKLRLKIGCKDTSVPLVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
6324375.y PFKLRLKIGCKDTSVPLVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
19113518.y PFKLRLKIGCKDTSVPLVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
32451513.y PFKLRLKIGCKDTSVPLVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
19113977.y PFKLRLKIGCKDTSVPLVLRKEKA TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
18402213.p PFKVPLRJGCGEDICCVYICRULADPLCNRD TGRHYAMKILRKDIIARL DEVAHLDENRVLQRCRKEPTEKYSFQT -DRICPVCMEYANG GELFFHHLISHERI FIEPARFVYFAEIVLALCQYHLR DIVYRDLKDNDNLLDTE GVKIAD32FCLOKEIS
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MSK2.h FELLKVLTGCTAYCKVGLVRKAGG-HDAGLYAMVLRKALVQR-AKIQEHTERIERSVLELVR-QAPFLVLNLHYAFQI-dAKLHLILLDYVSG-GEMFTILYROY-FREAEAVRIVYGCIEVLALAEHLHKL-IIYRDLKDENVLLDSE-GHIVLTDGFLSKSFLT
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 MSK1.h 9629939.v CAVLAPKVNGRFCKMLVLRHPT-TSKLF-LRKRPIAAHS-F-SADEINHDIMSC-CHPSFVDMYFCYSS-pTANAIYMDYVPC-PDLFLFELIOTQGA-FREHEVIVYCEIVLALAEHLHKL-IIYRDLKDENVLLDSE-GHIVLTDGFLSKSFLV
 15426273.v IgmnvrLVD-EKFCKMCKVIGK-EP-TKLFVKKLVAIK-ATKTFEHTERIERTROVLEIIR-QSPFLVLNLHYAFQI-dETKLHLILLDYING-GELFTLHSRCER-FREHEVIVYCEIVLALAEHLHKL-IIYRDLKDENVLLDSE-GHIVLTDGFLSKSFLV
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 18138330.v IgmnvrLVD-EKFCKMCKVIGK-EP-TKLFVKKLVAIK-ATKTFEHTERIERTROVLEIIR-QSPFLVLNLHYAFQI-dETKLHLILLDYVAG-GELFTLHSRCER-FSEAEFRIVCQLTEALNAGHSY-KIIHNDLKGENVLKVRH-KQIYLCDYGCCKVNT
 31216024.i FELLKVLTGCTAYCKVGLVRKTGVD-KDLYAMVLRKKLIVSLK-KKTAEEHTERIERTROVLEIIR-qCAPFLVLNLHYAFQI-dSKLYLILLDYVSG-GELFTLHCNRMH-FDEPAVHIIYIAEIVATEHLHKL-IVYRDLKDENVLDVD-GHIVLTDGFLSKSFLV
 21356509.f FKIIRVLTGCTAYCKVGLVRKTGHD-ACKLYAMVLRKKCTTVOK-RKTAEEHTERIERTROVLEIIR-qCAPFLVLNLHYAFQI-dSKLYLILDFNGC-GELFTLHYSSEN-FDESRVRLYIAEVVLALEHLHKL-IIYRDLKDENVLLDSE-GHIVLSDFGFLSKSFLT
 24662468.f FKIIRVLTGCTAYCKVGLVRKTGHD-ACKLYAMVLRKKCTTVOK-RKTAEEHTERIERTROVLEIIR-qCAPFLVLNLHYAFQI-dSKLYLILDFNGC-GELFTLHYSSEN-FDESRVRLYIAEVVLALEHLHKL-IIYRDLKDENVLLDSE-GHIVLSDFGFLSKSFLT
 32563675.v RSK3.h FELLKVLTGQGSFCKVGLVRKVT-PDSGFYLYAMVLRKKATLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEDVFKYLAELJLGLDHHSLL-IIYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 6677811.m FELLKVLTGQGSFCKVGLVRKVT-PDSGFYLYAMVLRKKATLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEDVFKYLAELJLGLDHHSLL-IIYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 13592065.m FELLKVLTGQGSFCKVGLVRKVT-PDNGLYAMVLRKKATLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEDVFKYLAELJLGLDHHSLL-IIYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 17508705.m FELLKVLTGQGSFCKVGLVRKVG-RDGSFVYAMVLRKKATLKV-RDORUKLERNLILAS-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEDDVFKYLAELJLALAEHLHSL-IIYVYRDLKDENVLDAAD-GHIVLTDGFLSKSFLA
 17508707.w 31205767.i FELLKVLTGQGSFCKVGLVRKVG-IDAGLYAMVLRKKATLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEDVFKYLAELJLALAEHLHSL-IIYVYRDLKDENVLDAAD-GHIVLTDGFLSKSFLA
 24643817.f FELLKVLTGQGSFCKVGLVRKVG-IDAGLYAMVLRKKATLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEDVFKYLAELJLALAEHLHSL-IIYVYRDLKDENVLDAAD-GHIVLTDGFLSKSFLA
 29789163.m RSK4.h FELLKVLTGQGSFCKVGLVRKVG-PDAGOLYAMVLRKKASLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GDVFTIISKEVIL-FDEEDVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEI-GHIVLTDGFLSKSFLV
 22507357.m FELLKVLTGQGSFCKVGLVRKVG-SDAROLYAMVLRKKATLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEDVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEI-GHIVLTDGFLSKSFLV
 RSK2.h FELLKVLTGQGSFCKVGLVRKVG-SDAROLYAMVLRKKATLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEDVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLID
 6755374.m 20897181.m FELLKVLTGQGSYCKVGLVRKVG-SDAGOLYAMVLRKKATLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEDVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLATD
 34853790.m RSK1.h FELLKVLTGQGSYCKVGLVRKVG-SDAGOLYAMVLRKKATLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEDVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 31203895.i 31203895.i FELLKVLTGQGSYCKVGLVRKVG-SDAGOLYAMVLRKKATLKV-RDRVKMERTDRDILAVDN-FPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEDVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 24643118.f YABRTWVKAFAFVYVTRVDTLAGGSDRCKVNSD-ISCYCALVKLKLLIED-NFVRLKDKDADQKVCWVH-HPFVTKPCVDIWDQR-TRLFLFSEFFGN-GELFSRHLKS-FEEDVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 38091505.m SgK494.h IILKLVAKGSFCVGLVLDPCA-QKAFVAKVVKVVKLQR-QR-DRVRSKMRDRDILAVDN-HPFVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEDSIRVFAELVILVLCYHDL-IIYRDLKDENVLDEE-GARAY
 17569233.w FELLKVLTGQGSFCVGLVLDCT-QKAFVAKVVKVVKLQR-QR-DRVRSKMRDRDILAVDN-HPFVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEASIRVFAELVILVLCYHDL-IIYRDLKDENVLDEE-GHIVLTDGFLSKSFLVPO
 17555946.w FELLKVLTGQGSYCKVGLVRKVTG-SDNGOFAMVLRKKATLKV-RQDAAHAKERNLILAS-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 24658719.f FELLKVLTGQGSYCKVGLVRKVTG-SDNGOFAMVLRKKATLKV-RQDAAHAKERNLILAS-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 34861393.m FELLKVLTGQGSYCKVGLVRKVTG-SDNGOFAMVLRKKATLKV-RQDAAHAKERNLILAS-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 10946894.m FELLKVLTGQGSYCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 p7086Kb.h p7086Kb.h FELLKVLTGQGSYCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 14010889.m FELLKVLTGQGSYCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 p7086K.h p7086K.h FELLKVLTGQGSYCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 31241451.i FELLKVLTGQGSYCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLA
 RSKL2.h cRVVVFVLE-KVQLVODPA-TGGTFVVKSLP-ERGMSRE-RLT1-IIPHOF-YPMKULRNPVSE-DISIFLIEHIVQG-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 39950921.Y FELLKVLTGQGSYCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 19074666.Y FELLKVLTGQGSYCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 32420379.Y FELLKVLTGQGSYCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 6319502.Y FELLKVLTGQGSYCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 19075330.Y FELLKVLTGQGSYCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 AK103333.FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 13592045.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 34879391.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 6755326.m RHOX.h FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 27806423.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 27805903.GPRK7.h FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 17567137.w FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 13928910.Y FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 GPRK6ps.h FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 GPRK6.h FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 31208057.i FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 17136724.FERMVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 27805901.m FERMVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 13540624.m FERMVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 31980925.m FERMVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 GPRK5.h FERMVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 9506749.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 12621084.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 GPRK4.h 32564603.w FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 17865829.f FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 31240177.i FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 28892991.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 6978467.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 27806217.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 BARK2.h FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 33857969.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 27807281.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 1cmw_GPRK2 FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 BARK1.h FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 6978465.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 17570293.w FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 29171296.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 18959280.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 SGK3.h FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 34860642.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV
 7305483.m FELLKVLTGQGSFCKVGLVRKVG-TNLGKLYAMVLRKKATLKV-CS-AKDTAAHTRRNLLIESVKK-HPFPVVLKLYHYAFQI-dGKLYLILDFLRC-GELFTLHSCEVM-FDEEVFKYLAELJLALDHHLQI-IIYVYRDLKDENVLDEE-GHIVLTDGFLSKSFLV

SGK2.h PDEFLKVICGCKNYGKVQDARKKS--DGAFYAVKVQLQNKSLILKK--KEOSHIMMAERSVLLKNV--IHPFLVGLRYSFQI--PEKLYFVLVDYNG GELFFHLQREERR--FDEPPARFYAAEVASAICGYLHSL--NIVYRDLKPEENILLDCQ--CHVVLTDGFGLCKEGCVE--
40363533.d PDEFLKVICGCKGSFCKVLDARKRS--DPKRYAVKVQLQKAILKK--KDEKHIMSERNVLLKNV--KHPFLVGLHYSFQT--DDKLYFVLVDYING GELFYHLQRERC--FDEPPARFYAAEIAASALCGYLHSL--NIVYRDLKPEENILLDSQ--CHIHLTDGFGLCKENI--
9507093.m PHEFLKVICGCKGSFCKVLDARKKA--EEAFYAVKVQLQKAILKK--KDEKHIMSERNVLLKNV--KHPFLVGLHFSFQT--ADKLYFVLVDYING GELFYHLQRERC--FDEPPARFYAAEIAASALCGYLHSL--NIVYRDLKPEENILLDSQ--CHIHLTDGFGLCKENI--
6755490.m PHEFLKVICGCKGSFCKVLDARKKA--EEAFYAVKVQLQKAILKK--KDEKHIMSERNVLLKNV--KHPFLVGLHFSFQT--ADKLYFVLVDYING GELFYHLQRERC--FDEPPARFYAAEIAASALCGYLHSL--NIVYRDLKPEENILLDSQ--CHIHLTDGFGLCKENI--
SGK.h PHEFLKVICGCKGSFCKVLDARKKA--EEAFYAVKVQLQKAILKK--KDEKHIMSERNVLLKNV--KHPFLVGLHFSFQT--ADKLYFVLVDYING GELFYHLQRERC--FDEPPARFYAAEIAASALCGYLHSL--NIVYRDLKPEENILLDSQ--CHIHLTDGFGLCKENI--
19115752.y PVEPLKLIGKGSFCKVLDARKKA--EEVEYAVKVQLQKAILKK--KDEKHIMSERNVLLKNV--KHPFLVGLHFSFQT--ADKLYFVLVDYING GELFYHLQRERC--FDEPPARFYAAEIAASALCGYLHSL--NIVYRDLKPEENILLDSQ--CHIHLTDGFGLCKENI--
39950824.y FEILKLKLIGKGSFCKVQVYQVRKRD--TRRIYAMKVLSKKVVIVQK--KEVAHPTVCEERNILVVRTat-snSPFIVLHKFSFQT--PTDLYLVTDYMSG GELFYHLQREGR--FEEPAKFYIAELLLALOAGHKR--IVYRDLKPEENILLDVQ--CHIALCDGFLGSKFADL--
32420385.y FQILRLIGKGSFCKVQVYQVRKRD--TRRIYAMKVLSKKVVIVQK--KEVAHPTVCEERNILVVRTam-sdSPFIVLHKFSFQT--PSDLYLVTDYMSG GELFYHLQREGR--FEEPAKFYIAELLLALOAGHKR--IVYRDLKPEENILLDAN--CHIALCDGFLGSKFADL--
6321999.y FEVIRLRLIGKGSFCKVQVYQVRKRD--TORIYAMKVLSKKVVIVKK--NEIAAHPIGERNLILVTTas-kaSPFIVLHKFSFQT--PTDLYLVTDYMSG GELFYHLQREGR--FEDPAKFYIAELVLALEHHHDN--IVYRDLKPEENILLDAN--CNIALCDGFLGSKFADL--
19114666.y FEVIRLIGKGSFCKVQVYQVRKRD--TNRIYAMKVLSKKVLIVRK--KEVTHPLGERNLILVPTs1-desPFIPLHKFSFQT--ASDLYLTIDYMSG GELFYHLQREGR--FEDPAKFYIAELVLALEHHHKH--NIVYRDLKPEENILLDAD--CHIALCDGFLGSKFADL--
6322723.y PDLLKVICGCKGSFCKVMCVRKRD--TOKVYALKAIRKTYIVSK--SEVTHTPLAERIVLAQV--GCPFIVLHKFSFQS--PEKLYFVLAFING GELFYHLQREGR--FDLSRPARFYIAELLLCALDNHKL--IVYRDLKPEENILLDYQ--CHIALCDGFLGSKLNMK--
6323751.y PDLLKVICGCKGSFCKVMCVRKRD--TOKIYALKALRKYIVSK--CEVTHPLAERIVLAQV--GCPFIVLHKFSFQS--PEKLYFVLAFING GELFYHLQREGR--FSLAPSRPFYIAELLLCALDSLHKL--IVYRDLKPEENILLDYQ--CHIALCDGFLGSKLNMK--
39977393.y FELLKVVVKGSFCKVMCVRKRD--TNRIYALKTIRKAHITSR--SEVTHTPLAERSVLAQI--NPFIPLKFAFQS--PEKLYFVLAFVNG GELFYHLQREQR--FDVNSRPFYTAEILCALEQHGF--NIVYRDLKPEENILLDYQ--CHIALCDGFLGSKLDMK--
32414173.y FELLKVVVKGSFCKVMCVRKRD--TNRIYALKTIRKAHITSR--SEVAHPTLAERSVLAQI--NPFIPLKFTFQS--PEKLYFVLAFVNG GELFYHLQREQR--FDVNSRPFYTAEILCALEQHGF--NIVYRDLKPEENILLDYQ--CHIALCDGFLGSKLDMK--
19075510.y FELLKVVVKGSFCKVMCVRKRD--TSRIYALKTMKKRHIVSR--SEVDHPLAERTVLAQV--NPFIPLKFTFQS--PGKLYLVLAFVNG GELFYHLQREGC--FDTYPAKFYIAELLVALEQHGF--NIVYRDLKPEENILLDYT--CHIALCDGFLGSKLNMA--

28573941.f FGDRTSTFCGTPBEFLAPLVLE TSY TRAVDWNGLVLIFEMLVCG EEEFPCCDD EEEVFDIVND EYRPFRLSLBAIAVMRLLREK NDEERRLGS SERDAEDVKKAFF
 28573939.f FGDRTSTFCGTPBEFLAPLVLE TSY TRAVDWNGLVLIFEMLVCG EEEFPCCDD EEEVFDIVND EYRPFRLSLBAIAVMRLLREK NDEERRLGS SERDAEDVKKAFF
 25146933.w PFDKTSSTFCGTPBEFLAPLVLSD SSY TRAIDWWGLVLIFEMLVCG EEEFPCCDD EEEVFDIVND EEEIFLIISE YGRPFRLSVAEICIMRLLREK NPEKRLLGS YGERDAEDVKIKOFRF
 32813439.m YGDRTSTFCGTPBEFLAPLVLE TSY TRAVDWNGLVLILYEMLVCG EEEFPCCDD EEEVFDIVND EYRPFRLSVAEICIMRLLREK NDEERRLGS TERDAEDVKKAPFF
 PKN1.h YGDRTSTFCGTPBEFLAPLVLF D TSY TRAVDWNGLVLILYEMLVCG EEEFPCCDD EEEVFDIVND EYRPFRLSVAEICIMRLLREK NDEERRLGS SERDAEDVKKCPFF
 8394047.m YGDRTSTFCGTPBEFLAPLVLF D TSY TRAVDWNGLVLILYEMLVCG EEEFPCCDD EEEVFDIVND EYRPFRLSVAEICIMRLLREK NDEERRLGS SERDAEDVKKCPFF
 30520013.m YGDRTSTFCGTPBEFLAPLVLE TSY TRAVDWNGLVLILYEMLVCG EEEFPCCDD EEEVFDIVND EYRPFRLSVAEICIMRLLREK NDEERRLGS GEKDAEDVKXKHPFF
 34860837.m YGDRTSTFCGTPBEFLAPLVLE TSY TRAVDWNGLVLILYEMLVCG EEEFPCCDD EEEVFDIVND EYRPFRLSVAEICIMRLLREK NDEERRLGS GEKDAEDVKXKHPFF
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 25146791.w YGDRTSTFCGTPBEYLAPVLFID IDY DRSDWNVGCVVMMYEMCC RLFPSAKE NGKLFETITTC D KFPPNRSLSEPAVQDILLSGLLER VPAKRLGA GFDDAREVGRAEFF
 25145932.w FGDKTSSTFCGTPBEYLAPVLFDD HDY CRCDWNVGCVVMMYEMCC RLFYKD RNLKLFETIIMAG D KFPPSKSLSEPAARLLTICLMLK D PTOQLRG GPEDALEICRDPFF
 17557832.w FGDKTSSTFCGTPBEYLAPVLFDD HDY CRCDWNVGCVVMMYEMCC RLFYKD RNLKLFETIIMAG D KFPPSKSLSEPAARLLTICLMLK D PTOQLRG GPEDALEICRDPFF
 31198165.i YGRDTKTFGTPBEYLAPVLFED NDY GHADEVNGTGVVMMYEMCC RLFYNNRD HDILFTTILMB EYKFPFRNISPANRSLILLSVK NDKORLGG GDPDDAKETMMPFF
 24647360.f YGRDTKTFGTPBEYLAPVLFDD NDY GQADEVNGTGVVMMYEMCC RLFYNNRD HDVLFTTILVE EYKFPFRNITDCAKNLLAGLMLK D KKKRLGG GKDDVKEIQAFPFF
 24647358.f YGRDTKTFGTPBEYLAPVLFDD NDY GQADEVNGTGVVMMYEMCC RLFYNNRD HDVLFTTILVE EYKFPFRNITDCAKNLLAGLMLK D KKKRLGG GKDDVKEIQAFPFF
 24647356.f YGRDTKTFGTPBEYLAPVLFDD NDY GQADEVNGTGVVMMYEMCC RLFYNNRD HDVLFTTILVE EYKFPFRNITDCAKNLLAGLMLK D KKKRLGG GFDDAKETMRSPFF
 13928778.m DAAATMKTFCGTPBEYLAPVLFDD NDY GRADEVNGLVLVMMYEMCC RLFYNNRD HEKLKFETIILME D KFPPRSLSDPAKLLSLLMLK D PNKRLGG GDPDDAKEMHRSPFF
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 AKT1.h DAAATMKTFCGTPBEYLAPVLFDD NDY GRADEVNGLVLVMMYEMCC RLFYNNRD HEKLKFETIILME D KFPPRSLSDPAKLLSLLMLK D PNKRLGG GDPDDAKEMHRSPFF
 27806747.m DAAATMKTFCGTPBEYLAPVLFDD NDY GRADEVNGLVLVMMYEMCC RLFYNNRD HEKLKFETIILME D KFPPRSLSDPAKLLSLLMLK D PNKRLGG GDPDDAKEMHRSPFF
 15100164.m DAAATMKTFCGTPBEYLAPVLFDD NDY GRADEVNGLVLVMMYEMCC RLFYNNRD HEKLKFETIILME D KFPPRSLSDPAKLLSLLMLK D PNKRLGG GDPDDAKEMHRSPFF
 37700244.d NEATAMKTFCGTPBEYLAPVLFED NDY GRADEVNGLVLVMMYEMCC RLFYNNRD HERLKFETIILME D KFPPRSLSDPAKLLSLLMLK D KFPPRSLSDPAKLLSLLMLK D KFPPRSLSDPAKLLSLLMLK
 AKT2.h DAAATMKTFCGTPBEYLAPVLFED NDY GRADEVNGLVLVMMYEMCC RLFYNNRD HERLKFETIILME D KFPPRSLSDPAKLLSLLMLK D KFPPRSLSDPAKLLSLLMLK D KFPPRSLSDPAKLLSLLMLK
 6680674.m DAAATMKTFCGTPBEYLAPVLFED NDY GRADEVNGLVLVMMYEMCC RLFYNNRD HERLKFETIILME D KFPPRSLSDPAKLLSLLMLK D KFPPRSLSDPAKLLSLLMLK D KFPPRSLSDPAKLLSLLMLK
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 52520008.f fVAEPVELRSMSFVGTEYLAPLVSG EGH GSADWNTLVLVFEELLYG VTFPKGD NEMTANRIVAR ALEFPRPLSVAAKDVLVTSLSL D PARPLGA TVCAEVAKRHPFF
 30692190.p 1SLAEPDVAKRMSFVGTEYLAPLVSG EGH GSADWNTLVLFELLYG TTFPKGD NEMTANRIVAR ALEFPRPLSVAAKDVLVTSLSL D PARPLGA TVCAEVAKRHPFF
 15225776.P iFAEPIPNSRKSFVGTBEYLAPVLFSG GCH GSADWNTLIELYEMFG RTFPKGD NNEKLFVNLK D PLTFPKVIVNSPSKEYEDWNAQDLIRKLLVK NDKORLGG SIKSIEIJKRHEFF
 AK101660 vVVEPVAAARKSFVGTBEYLAPVLFSG GCH GSADWNTLIELYEMFG RTFPKGD NNEKLFVNLK D PLTFPKVIVNSPSKEYEDWNAQDLIRKLLVK NDKORLGG PVTIFPRlAAGAAAGEWEEMKJAOIDLMLLAK NDKORLGG STMGSAAEVKRPFF
 AK1026290 fVAEPTDARSMSFVGTEYLAPLVASG GCH GAADEVNTLIELYELLYG RTFPKGD NEATANRIVRK D PAARLIG DPAARLIG SEDAAJADVKSPFF
 74030009 fvaepvdarssSFVGTBEYLAPVVAR GCH GAVDWWNTLIELYELLYG RTFPKGD NEATANRIVRK D PLEFPDAAAGGGSPIDAARDLIRLKD D PRSLRG SRRJAADVKSPFF
 15226800.p faaepvtarssSFVGTBEYLAPVVAR GSH GNADEVNTLIELYELLYG RTFPKGD NDVHLNIVRK QLSFTPDTSPATMPFELVSLILLMLK D PTKRLG SSRJAADVKSPFF
 15231840.p faaepvtarssSFVGTBEYLAPVVAR GSH GNADEVNTLIELYELLYG RTFPKGD KEQTANRIVST TKTASFHMDGDLBARDLICKLMLK D PRKRLGC ARGAQDJKRHPFF
 15220907.p faaepvtarfksCVGTEYLAPLVSG NCH GSVDWWAFIELYEMLG RTFPKGD KEQTANRIVST D CVAFTLEEECMVAKDLIQLLMLK D PRKRLGC ARGAQDJKRHPFF
 71430020 fvaeppttanSKDCVGTEYLAPLVSG EGH CNGVDDWAFIELYELLYG RTFPKGD KDATANKILAK QVTPQLDGEALAAJDKRHPFF D PRKRLGC ARGAQDJKRHPFF
 30450014 KTAAPSSASPPRIGEYI EGH EFADEVNTLVLVEMAYG RIFPFGRS RKETFRNVLLR ESEFSADESRRRWPLDILRLLMLK BPKRLG -FAGGAAEDEVPRPFF
 3605006 gggaaaacerSFSFVGTEYLAPVWRG EGH EFADEVNTLVLVEMAYG RIFPFGRS RKETFRNVLLR EOPELVGEKTTPLRDLRLLMLK BPKRLG -FAGGAAEDEVPRPFF
 83523772.a aagvrspsakNSFVGTEDYVAPVIIKG EGH D FADWNTLVLVLYEMLG RTFPLGRN RKETFYRILSK D PPNLTLGETTSPLRDLRLLMLK D PSRRIN VPEEIKGDFPFF
 15230825.P avsdssgekNSFVGTEYYVAPVIIKG EGH D FADWNTLVLVLYEMLG RTFPLGRN RKETFYRILSK D PPNLTLGETTSPLRDLRLLMLK D PSRRIN VPEEIKGDFPFF
 15235548.P sesFSECKNSFVGTEYYVAPVIIKG EGH D FADWNTLVLVLYEMLG RTFPLGRN RKETFYRILSK D PPNLTLGETTSPLRDLRLLMLK D PSRRIN VPEEIKGDFPFF
 18403402.r LsLPSGGERNSFVGTEYYVAPVIIKG DGH D FADWNTLVLVLYEMLG RTFPLGRN RKETFYRILSK D PPNLTLGETTSPLRDLRLLMLK D PSRRIN VPEEIKGDFPFF
 15232374.P KTSFssgekNSFVGTEYYVSPVIRG DGH D FADWNTLVLVLYEMLG RTFPLGRN RKETFYRILSK D PPNLTLGETTSPLRDLRLLMLK D PSRRIN VPEEIKGDFPFF
 AK107126 lvvepidarsNSFVGTEYLAPLIIKG DGH GSADEVNTLIELYEMLG RTFPLGRP D NEETANVVSQ DPLKPFEPAGKPGDPLDILRLLMLK D PTKRLG FWRJAEEIKRHPFF
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 15242814.p 1VaEPTDARSNSFVGTEYLAPLIIKG EGH GAVDWWNTLIELYELLYG RTFPKGAT NEETANVVLO D SLKPPDPDNVSPFAKDLIQLLMLK D ENRLIG TEKJAEEIKRHPFF
 30693721.l 1VaEPTEARNSFVGTEYLAPLIIKG EGH GAVDWWNTLIELYELLYG RTFPKGAT NEETANVVLO D SLKPPDPDNVSPFAKDLIQLLMLK D ENRLIG TEKJAEEIKRHPFF
 15227639.l 1VaEPTEARNSFVGTEYLAPLIIKG EGH GAVDWWNTLIELYELLYG RTFPKGYD NEETANVVYQ D NLKPPDPSVSPFAKDLIQLLMLK D ENRLIG SEKGSVEIJKRHPFF
 15242554.l 1IaEPTAERSNSFVGTEYLAPLIIKG DGH GSVDWWNTLIELYELLYG RTFPKGNG NRETLFNVVGG D QPLKPFEPGSSISFAKDLIQLLMLK D KKKRLG FCKPATEIKOFPFF
 15219253.p 1MaEPTNVKMSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG ATTFPKQQG NKAQDLYNVIQG PLRFPEYSOVSSAKDLIQLLMLK BQNRIA YKRAEATENIKOFPFF
 15219322.p 1MaEPTNVKMSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG ATTFPKQQG NRAQDLYNVIQG ALRPFPEVPHYSVSSARDLICKLMLK BQKRIA YKRAEATENIKOFPFF
 15230566.l 1MaEPTDVRKMSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGQG NRAQDLYNVIQG PLKPFDPDTPVSSARDLICKLMLK D HERRIA YTRJATEIKOFPFF
 83511682.f fTAEPTGARMSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRAQDLYNVIQG PLRFPDAPASAAARDLIRELLMLK D QOSRLA YRJATEEVKOPFF
 AK107045 fnaEPTEARMSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG ATTFPKGAG NRAQDLYNVIQG fnaEPTDARSMSFVGTEYLAPLIIKG D HKKRIA FTRJATEIKOFPFF
 AK069983 fnaEPTDARSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG MTFPKGS S NRAQDLYNVIQG fnaEPTDARSMSFVGTEYLAPLIIKG D HKKRIA FTRJATEIKOFPFF
 AK101944 lvaEPTAERSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRAQDLYNVIQG QLRPFPEPSYISYAGDLIRELLMLK D QOQLIG VKRJATEIKOFPFF
 83020012 lvaEPTAERSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRAQDLYNVIQG QLRPFPEPSYISYASRDLIRELLMLK D QOQLIG VKRJATEIKOFPFF
 30689844.p elvaepnTRKMSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRAQDLYNVIQG QLRKPESPAISYAGDLICALEMLK D KDNRLG YTRJATEIKOFPFF
 15238798.p 1VaEPTDARSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRQDLYNVIQG PLRFPDPETPVVSPFARDLIRELLMLK D QOQLIG FKRJATEEVKOPFF
 15241076.p 1VaEPTGARMSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRQDLYNVIQG PLRFPDPETPVVSPFARDLIRELLMLK D QOQLIG YKRAEATENIKOFPFF
 15236802.p 1VaEPTAERSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRQDLYNVIQG PLRFPDPETPVVSPFARDLIRELLMLK D QOQLIG YKRAEATENIKOFPFF
 15232201.p 1IaEPTAERSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRQDLYNVIQG PLRFPDPETPVVSPFARDLIRELLMLK D QOQLIG YRJATEIKOFPFF
 AK0658888 liaeEPSDARSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRQDLYNVIQG PLRFPDPETPVVSPFARDLIRELLMLK D QOQLIG YRJATEIKOFPFF
 AK100261 liaeEPSDARSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRQDLYNVIQG PLRFPDPETPVVSPFARDLIRELLMLK D QOQLIG C KRJATEIKOFPFF
 AK100536 liaePTDARSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRQDLYNVIQG PLRFPDPETPVVSPFARDLIRELLMLK D QOQLIG YKRAEATENIKOFPFF
 AK103656 liaePTDARSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRQDLYNVIQG PLRFPDPETPVVSPFARDLIRELLMLK D QOQLIG YKRAEATENIKOFPFF
 AK070835 lvaEPTDARSMSFVGTEYLAPLIIKG EGH GSADWWNTLIELYELLYG RTFPKGSG NRQDLYNVIQG SLRFPESPVVSPFARDLIRELLMLK D QOQLIG YKRAEATENIKOFPFF
 AK065447 IFFAEPNRAcNSFVGTEYYVAPVIIKG EGH TSADWWALILLYEMLG YTFPKGRT RLFPSPG -AR D PPRPACT SRATPTTRIARENMV
 AK066816 IFFAEPNRAcNSFVGTEYYVAPVIIKG EGH TSADWWALILLYEMLG YTFPKGRT RQRTFANILHK D DIRFPASISVSLARLMRLLMLK D PANRLG SYEJANEIKOFPFF
 15231245.p ifmaEPMRAcNSFVGTEYYVAPVIIKG EGH TSADWWALILLYEMLG YTFPKGRT RQRTFANILHK D DLKPFPAISPLSLVVKLILBLMLK D KKKRLG FEJANEVKOBSPFF
 83522140 tfvsepsptNSFVGTEYYVAPVIIKG EGH TSADWWALILLYEMLG YTFPKGRT RQRTFANILHK D DLTFPSSIPVSLAKDLIQLLMLK D DSNRLG DSNRLG SNAJANDIKOFPFF
 AK067128 tfvsepsptNSFVGTEYYVAPVIIKG EGH TSADWWALILLYEMLG YTFPKGRT RQRTFANILHK D DLTFPSSIPVSLAKDLIQLLMLK D DSNRLG SNAJANDIKOFPFF
 30697007.p tfvsepsptNSFVGTEYYVAPVIIKG EGH TSADWWALILLYEMLG YTFPKGRT RQRTFANILHK D DLTFPSSIPVSLVGRDLINLLMLK D DSSRLG SKGGANEIKOFPFF
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 39978255.y trsclesyIRNSFVGTEYYVAPVIIKG EGH SVADEVNTLILYEMLG YTFPKGRT RNAFTANVMRE DVHFPDPDPELSPMNGKSFIRKCLK D DNRLLG IA-JAEELKRPFF
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 19113518.y tnsyfnsfrtNSFVGTEYYVAPVIIKG EGH TADEVNTLILYEMLG CTFPKGRT RNAFTANVMRE DVKPFPHDEKVSCKNDLILKMLK D DNRLLG JKA-SADIKRPF
 32415513.y TKSCIANEENSFVGTEYYVAPVIIKG EGH TSADEVNTLILYEMLG CTFPKGRT RNAFTANILHK D DNRLLG ARACADIKRPF
 19113977.y tksciadfttNSFVGTEYYVAPVIIKG EGH TSADEVNTLILYEMLG CTFPKGRT RNAFTANILHK D DNRLLG SQAGADEVKOBSPFF
 18402213.p DEHRSRARRQRSAVGTEDYLAPLIIKG EGH GATADWWNTLILYEMLG IPFFNADH PQQIFDNLNKR D DNRLLG ARCAJAEVKOBSPFF
 AK061515 eMDIRARRQRSAVGTEDYLAPLIIKG EGH GTSADWWNTLILYEMLG IPFFNADH PQTFNADLNR D DNRLLG ANJASEVKOBSPFF

30684702.p	eEQOLERPFKKNSAVGTPDYLAPETILLG-	tch-GATADWSSVGLLIFELTIVG-IPPEINAH-	PQIPIIDNIIINR-	KIPWPVHPVEEEMSSEAIDIDILRDPF-	DPHORLQARAKGEVKHIFP
83594081.p	rAQKREQRQKQAAVTPDYLAPETILLG-	mTH-GPTADWSSVGLLIFELTIVG-IPPEINAH-	PQIPIIDNIIINR-	EIPWPQVPEELSEAYALDIDKcyfns-hfvRLLT-	-
24648052.f	RDLTEISDLI-	N-	CSIN-1NARTPGQLLSL-	TSHLSFGSEKKLNDPGS-VSSCQNNGMG-	TSHLQAQINHHFL
34877462.m	LTTPeSmkpkDySrpCgVMSLISSS-	1c-	FFP-PgvsekddsanvSAKscaqlsQGSICPMsDQ-	KEPVSYssK11KSCFETLASNL-EIVVKCLTSNLL-	SSSTSSOSHENV
29568088.m	LTTPeSmkpkDySrpCgVMSLISSS-	1c-	FFP-PgvsekddsanvSAKscaqlsQGSICPMsDQ-	KEPTSYssK11KSCFETLASNL-EIVVKCLTSNLL-	KEPTSYssK11KSCFETLASNL-EIVVKCLTSNLL-
MASTL.h	RDIINMMDILTTPS-MAkp	rD-	YSRT-PCQVLSLH-SL-	GFnptPAEKNDPANILSACLSETSO-	GFnptPAEKNDPANILSACLSETSO-
15219417.p	NTLVS-SGGVSTLG-MAPEELLNG-	-SSKV-SERVIVFSEGVIVL-BIING-EEPVHANH-	YCAIIGGVNN-	TLPRTIPFCFCDDE-ITLNEECWAT-	NPMARPS
40538750.d	TAPE-TAP-	RKG-TSASDVSSYIVM-EMVSMGERPWWDNS-	N-DVVMNAMEQ-	DYRLPPPMDCPAVHQILM-LECVWK-	ENRMPLS
15241795.p	DSEPKHAHVGT-PDYLAPETILLG-	MCH-GTADWSSVGLLIFELTIVG-IPPEINAH-	PQIPIIDNIIINR-	DIPWPVNPEEISWEADLILNKLKLT-	NPVORL-
15219539.p	qKnQEEERIRNSAVGTPDYLAPETILLG-	TB-GEAADDAGIVLIFELTIVG-IPPEINAH-	PQIPIIDNIIINR-	KmPWPVPGEEMSMAQADLNLRRNVLH-	ENPVR-
19112278.y	eKKNERTFIKKDISCTENYMAPETILMG-	VD-TMGDIWAMCGIVFEMLIVG-TRPEBEANT-	VXAIJARERN-	DIGWTKRKVESCEKAEDLTLKMDP-	DCNKR-
39975017.y	GEKPKRALNSGTTD-APDILKQgpfa-rikgdgQ-	DETSDWSSVGCIMPEELVG-IPPEINAH-	PELVPEENIIAR-	RIQNQPEEMEDEVSAEARDILNKLKCM-	NPERLRS
32414369.y	walidpqdtmr-FDTDYLAPIPEVRL-	pQ-DETSDWSSVGCIMPEELVG-IPPEINAH-	AEGVPEENIIAR-	KLEFPFDSDMEISCAEDLNLKLLCS-	DPHORLQANFQSGGEPEIRSHPKF
14318486.y	Ifyf-EDDS-ONKKFIC-CTPDYLAPETILLG-	gED-NKOCOMSSVGCIMPEELVG-YPPPEINAH-	PDAVECRKIVNW-	VIGWPWPEKEEEREFIL-PEAKDILNKLKVV-	ANGAEVKHIFP
19075810.y	qPffenkpdg-CKTGPDYLAPIPEVILGn	PG-IAKASWMSLGLCCVVFEELEG-YPPPEINAH-	PDAVECRKIVNW-	RINNAPEAVTAESSVAEIDLDRLLCM-	NPANPRL
15234064.p	hwQMNRRKLAStVGT-PDYLAPIPEVILGn	KCY-GNECDWSSLCAIMYEMLVG-YPPPEYADD-	PISTCRKIVHW-	RnhLKFPEDAKE-SCEAIDLICRLLCN-	VDBRL-
18416116.p	qWKRNRRLALASYTGT-PDYLAPIPEVILK-	KCY-GNECDWSSLCAIMYEMLVG-YPPPECSDD-	PRITCRKIVNW-	RvcLKFPEEIKSDEAIDLICRLLCD-	VDSRL-
27420006	hwQINNRKLAStVGT-PDYLAPIPEVILK	KCY-GNECDWSSLCAIMYEMLVG-YPPPEYSDD-	PITTCRKIVHW-	RNLKLFPEDKVSPEAKDILCRLLC-	DVDLR-
18399030.p	hwQINNRKLAStVGT-PDYLAPIPEVILK	KCY-GNECDWSSLCAIMYEMLVG-YPPPEYSDD-	PMTTCRKIVNW-	SACADEIKAH-	HGAQABOQIKAH-
22331282.p	rwgrnrmlayStVGT-PDYLAPIPEVILK-	KCY-GNECDWSSLCAIMYEMLVG-FPPPYSD-	PMTTCRKIVNW-	KNYLKLFPEDEVRLSPEAKDILCRLLC-	NVEORL-
30682806.p	rwgrnrmlayStVGT-PDYLAPIPEVILK-	KCY-GNECDWSSLCAIMYEMLVG-FPPPYSD-	PMTTCRKIVNW-	RnyLKFDFEVRLSPEAKDILCRLCN-	VEORL-
30682811.p	rwgrnrmlayStVGT-PDYLAPIPEVILK-	KCY-GNECDWSSLCAIMYEMLVG-FPPPYSD-	PMTTCRKIVNW-	RnyLKFDFEVRLSPEAKDILCRLCN-	VEORL-
15225358.p	-WQRNRRLALASYTGT-PDYLAPIPEVILK-	KCY-GNECDWSSLCAIMYEMLVG-YPPPEYSDD-	PMSICRKIVNW-	KSHLKFFEEAHLISREAKDILNKLIC-	-SVRRL-
15219591.p	BWQKNRRLALASYTGT-PDYLAPIPEVILK	KCY-GNECDWSSLCAIMYEMLVG-YPPPEYSDD-	PMSICRKIVNW-	KTHLKFPEEAKDILSQRGARDLICRLLC-	SVNORL-
16418172	BWQKNRRLALASYTGT-PDYLAPIPEVILK	KCY-GNECDWSSLCAIMYEMLVG-YPPPEYSDD-	PMTTCRKIVNW-	RTHLKFPEEARLMTDADLISKL-	NVDRL-
15221465.p	hwQQNRRLLAStVGT-PDYLAPIPEVILK-	KCY-GNECDWSSLCAIMYEMLVG-FPPPYSD-	PLATCRKIVNW-	KtCLKFFDEAKLISIEVKDILRNL-	NVEORL-
AK101120	BWQKNRRLLAStVGT-PDYLAPIPEVILK-	KCY-GNECDWSSLCAIMYEMLVG-YPPPEYSD-	PMTTCRKIVNW-	RSHLKFPEEAKLISDEAIDLISKL-	NVEORL-
55960009	BWQKNRRLLAStVGT-PDYLAPIPEVILK-	KCY-GNECDWSSLCAIMYEMLVG-YPPPEYSD-	PMTTCRKIVNW-	RSHLKFPEEAKLISPEAKDILSKL-	NADRL-
32566202.w	twKRNRRLAYASTVGT-PDYLAPIPEVQD-	nCY-NSCDWSSLGLCIVMYEMLVG-YPPPECSDD-	POTETCRKIVNW-	QQILWVPPSDVPISIEAKATIKRFFC-	BAEFLR-
31213155.i	swKRNRRLALASYTGT-PDYLAPIPEVFL-	tCY-GFACDOWSSLGLCIVMYEMLVG-YPPPECSDN-	PDTTCKRVMNW-	RETLIIPPEPTPISPEAKDILCRLCN-	BAEFLR-
24667016.f	swKRNRRLALASYTGT-PDYLAPIPEVFL-	tCY-GFACDOWSSLGLCIVMYEMLVG-YPPPECSDN-	PDTTCKRVMNW-	RETLIIPPEPTPISPEAKDILCRLCN-	BAEFLR-
27370078.m	twkKNRRLAYASTVGT-PDYLAPIPEVFMQ-	tCY-NKLCOWSSLGLCIVMYEMLVG-FPPPYCSBT-	PETTCKVMSW-	KETLIAFPPEVVPSEAKDILLRFCT-	DSENR-
NDR2.h	twkKNRRLAYASTVGT-PDYLAPIPEVFMQ-	tCY-NKLCOWSSLGLCIVMYEMLVG-FPPPYCSBT-	PETTCKVMSW-	KETLIAFPPEAKLISDEAIDLISKL-	NVEORL-
NDR1.h	twkKNRRLAYASTVGT-PDYLAPIPEVFMQ-	tCY-NKLCOWSSLGLCIVMYEMLVG-FPPPYCSBT-	PETTCKVMSW-	KETLIAFPPEAKLISDEAIDLISKL-	NVEORL-
34852268.m	twkrnrqlalaStVGT-PDYLAPIPEVFMQ-	tCY-NKLCOWSSLGLCIVMYEMLVG-YPPPECSBT-	PETTCKVMSW-	KETLTFFPEVVPISIEAKDILLRFCC-	EWEIR-
19527344.m	twkrnrqlalaStVGT-PDYLAPIPEVFMQ-	tCY-NKLCOWSSLGLCIVMYEMLVG-YPPPECSBT-	PETTCKVMSW-	KETLTFFPEVVPISIEAKDILLRFCC-	EWEIR-
19075145.y	-GKARS-1TVGT-PDYLCSvn	-eecEV-GBDVFDFLGLGVIIYEMLVG-TTPPYSD-	LETETCRKIVNW-	RETLIIPPEPTPISPEAKETIINFCC-	BAEFLR-
17505247.w	-NGVVRCSCTAVGTPDYLAPIPEVRLRgg-	-gdsY-CEKCDOWSSVGVIIYEMLVG-ETPPYAA-	LVTYTNINH-	RETLIIPPEPTPISPEAKETIINFCC-	BAEFLR-
24642569.f	-NGQVDS-SNAVGT-PDYLAPIPEVRLQgg-	-vdnEV-CEKCDOWSSVGVIIYEMLVG-ETPPYAA-	LVTGTYSKINDH-	KTSLKPFDPDDELISTQDFDILKCFL-	AAPDRL-
ROCK2.h	TGMVHCATAVGTPDYLAPIPEVLSKgg-	gdgFV-CEKCDOWSSVGVIIYEMLVG-ETPPYADS-	LVTGTYSKINDH-	APCDRSL-RNSVDDIIRNKH-	NHGCLDEIKCPF
6677761.m	TGMVHCATAVGTPDYLAPIPEVLSKgg-	gdgFV-CEKCDOWSSVGVIIYEMLVG-ETPPYADS-	LVTGTYSKINDH-	KTSLKPFDPDDELISTQDFDILKCFI-	AAPDRL-
6981478.m	TGMVHCATAVGTPDYLAPIPEVLSKgg-	gdgFV-CEKCDOWSSVGVIIYEMLVG-ETPPYADS-	LVTGTYSKINDH-	KTSLKPFDPDDELISTQDFDILKCFI-	AAPDRL-
27806123.m	TGMVHCATAVGTPDYLAPIPEVLSKgg-	gdgFV-CEKCDOWSSVGVIIYEMLVG-ETPPYADS-	LVTGTYSKINDH-	KTSLKPFDPDDELISTQDFDILKCFI-	AAPDRL-
27819643.d	TGMVHCATAVGTPDYLAPIPEVLSKgg-	gdgFV-CEKCDOWSSVGVIIYEMLVG-ETPPYADS-	LVTGTYSKINDH-	KTSLKPFDPDDELISTQDFDILKCFI-	AAPDRL-
13592049.m	EGMVRCATAVGTPDYLAPIPEVLSKgg-	gdgFV-CEKCDOWSSVGVIIYEMLVG-ETPPYADS-	LVTGTYSKINDH-	KTSLKPFDPDDELISTQDFDILKCFI-	AAPDRL-
6677759.m	EGMVRCATAVGTPDYLAPIPEVLSKgg-	gdgFV-CEKCDOWSSVGVIIYEMLVG-ETPPYADS-	LVTGTYSKINDH-	KTSLKPFDPDDELISTQDFDILKCFI-	AAPDRL-
ROCK1.h	EGMVRCATAVGTPDYLAPIPEVLSKgg-	gdgFV-CEKCDOWSSVGVIIYEMLVG-ETPPYADS-	LVTGTYSKINDH-	KTSLKPFDPDDELISTQDFDILKCFI-	AAPDRL-
24663340.f	DGHVLS-SPVGT-PDYLAPIPEVlQisty-	klesksNH-DVSCDYSMSGIIYELICE-TTPPEHDN-	VETTYKIIISH-	CEERSHLLISPADLKVSVNRYNIESLVI-	NPSKRL-
CRICK.h	NKVMVNAKLPGTPDYLAPIPEVTLVmng-	dkgkYH-GLDCDOWSSVGVIIYEMLVG-RSPFAEQT-	SARTENNIMNF-	QRFKLFPPDDEKVSDFDLDLHQIILC-	SYERKHF
34872621.m	KVDAKLP1-CTPDYLAPIPEVTLVmne-	drggYI-GLDCDOWSSVGVIIYEMLVG-KTFTEGT-	SARTENNIMNF-	QRFKLFPPDDEKVSDFDLDLHQIILC-	SYERKHF
33469071.m	KVDAKLP1-CTPDYLAPIPEVTLVmne-	drggYI-GLDCDOWSSVGVIIYEMLVG-KTFTEGT-	SARTENNIMNF-	QRFKLFPPDDEKVSDFDLDLHQIILC-	SYERKHF
25145908.w	DGSVASNAVGT-PDYLAPIPEVRLAmed-	gwgRM-CEKCDOWSSVGVIIYEMLVG-TTPPYAS-	LVTDTKIMSH-	Qdn1DPFDDEIDWVSEAKDILRIL-	SSDWR-
24762562.f	DGTVOStAVGTPDYLAPIPEVRLAmed-	gkgRM-GTECDOWSSLGLCIVMYEMLVG-ETPPYAA-	LVTDTKIMSH-	QNCFLNPQSGETLNYKVSSETSQDILKCFI-	IPEWRL-
31240045.i	QGTVOStAVGTPDYLAPIPEVRLAmed-	gkgRM-GTECDOWSSLGLCIVMYEMLVG-ETPPYAA-	LVTDTKIMSH-	KNSFDPPNDDEFGVSEQAKDILRIL-	APENRL-
34855293.m	DGTVRSStAVGTPDYLAPIPEQAvgggg-	pgaggY-CEKCDOWSSVGVIIYEMLVG-QTPPYADS-	TAEYTKIVHY-	REHLSL-RADMGVEEEAKDILRIL-	PAEFLR-
14192945.m	DGMRVStAVGTPDYLAPIPEQAvgggg-	pgaggY-CEKCDOWSSVGVIIYEMLVG-QTPPYADS-	TAEYTKIVHY-	REHLSL-RADMGVEEEAKDILRIL-	PAEFLR-
DMPK1.h	DGTVOStAVGTPDYLAPIPEQAvgggg-	pgaggY-CEKCDOWSSVGVIIYEMLVG-QTPPYADS-	TAEYTKIVHY-	REHLSL-RADMGVEEEAKDILRIL-	PAEFLR-
33942081.m	DGTVOStAVGTPDYLAPIPEQAvgggg-	pgaggY-CEKCDOWSSVGVIIYEMLVG-QTPPYADS-	TAEYTKIVHY-	REHLSL-RADMGVEEEAKDILRIL-	PAEFLR-
MRCKb.h	DGTVOStAVGTPDYLAPIPEQAvgggg-	pgaggY-CEKCDOWSSVGVIIYEMLVG-QTPPYADS-	TAEYTKIVHY-	REHLSL-RADMGVEEEAKDILRIL-	PAEFLR-
16758420.m	DGTVOStAVGTPDYLAPIPEQAvgggg-	pgaggY-CEKCDOWSSVGVIIYEMLVG-QTPPYADS-	TAEYTKIVHY-	REHLSL-RADMGVEEEAKDILRIL-	PAEFLR-
16758474.m	DGTVOStAVGTPDYLAPIPEQAvgggg-	pgaggY-CEKCDOWSSVGVIIYEMLVG-QTPPYADS-	TAEYTKIVHY-	REHLSL-RADMGVEEEAKDILRIL-	PAEFLR-
MRCKa.h	DGTVOStAVGTPDYLAPIPEQAvgggg-	pgaggY-CEKCDOWSSVGVIIYEMLVG-QTPPYADS-	TAEYTKIVHY-	REHLSL-RADMGVEEEAKDILRIL-	PAEFLR-
DMPK2.h	NGMVDSSAVGTPDYLAPIPEQAvgee-	gkgH-CEKCDOWSSVGVIIYEMLVG-ETPPYAA-	LVTYTNINH-	KEHLSLPLVDEGVEEAKDILRIL-	PPDRL-
38084833.m	NGMVDSSAVGTPDYLAPIPEQAvgee-	gkgH-CEKCDOWSSVGVIIYEMLVG-ETPPYAA-	LVTYTNINH-	KEHLSLPLVDEGVEEAKDILRIL-	PPDRL-
34861838.m	NGMVDSSAVGTPDYLAPIPEQAvgee-	gkgH-CEKCDOWSSVGVIIYEMLVG-ETPPYAA-	LVTYTNINH-	KEHLSLPLVDEGVEEAKDILRIL-	PPDRL-
39961333.y	ewRRSRRITMASAVGTPDYLAPIPELVMG-	1CY-SESSIDMSLCAIMYEMLVG-WAPPCSED-	ADDATKIVHW-	RDSLQFPEDFLQLYNENAKDILKCFI-	BAEFLR-
39940928.y	dwRRSRRITMASIVGT-PDYLAPIPELFTG-	hCY-TFDCDOWSSLGLCIVMYEMLVG-WPPPCSAED-	SDTTRKIVNW-	RDSLQFPEDFLQLYNENAKDILKCFI-	BAEFLR-
3241205.y	dwRRSRRITMASIVGT-PDYLAPIPELFTG-	hCY-SFDCDOWSSLGLCIVMYEMLVG-ETPPYAA-	SDTTRKIVNW-	RDSLQFPEDFLQLYNENAKDILKCFI-	BAEFLR-
6324168.y	twRRSRRITMASIVGT-PDYLAPIPEFLY-	ggy-COECDOWSSVGVIIYEMLVG-WPPPCSBT-	PETETKIMNF-	EQTLQFPDDI1HISYEEEDLIRNL-	HADRL-
19114077.y	twkKNRRLAYASTVGT-PDYLAPIPEFLQ-	gcy-GTCDOWSSLGLCIVMYEMLVG-ETPPYAA-	SHTTYKIVNW-	RETTFNDFDIDKCFI-	RHCGADEIHKHF
17509105.w	vRQQTERRITMASIVGT-PDYLAPIPEVIAK-	gcy-GTCDOWSSLGLCIVMYEMLVG-ETPPYAA-	SHTTYKIVNW-	RETTFNDFDIDKCFI-	RHCGADEIHKHF
31208821.i	KFREKNRKAISIVGT-PDYLAPIPEVLMR-	gcy-TOLCDOWSSVGVIIYEMLVG-QPPPLANT-	ADETTKIVNW-	RQFLRIPDVDAHLTPEAMDILHFLCK-	NEDELRL-
24651507.f	RMRDlgrv1laStVGT-PDYLAPIPEVLER-	gcy-TOLCDOWSSVGVIIYEMLVG-QPPPLANT-	ADETTKIVNW-	ERLFLPDTQVWIDVSEAKDILRIL-	SREIRL-
7657295.m	aQKQHQRCLASIVGT-PDYLAPIPEVLLR-	key-TOLCDOWSSVGVIIYEMLVG-QPPPLAPT-	ADETTKIVNW-	KERQFPAQVWIDVSEAKDILRIL-	SREIRL-
34874224.m	aQKQHQRCLASIVGT-PDYLAPIPEVLLR-	key-TOLCDOWSSVGVIIYEMLVG-QPPPLAPT-	ADETTKIVNW-	EDHLOQFPDDVDPVFA-SQDILRIL-	ROEERL-
LATS2.h	ARQhqrclASIVGT-PDYLAPIPEVLLR-	key-TOLCDOWSSVGVIIYEMLVG-QPPPLAPT-	ADETTKIVNW-	EDHLOQFPADVDFVSE-SQDILRIL-	ROEERL-
34852566.m	aarqhqrclASIVGT-PDYLAPIPEVLLR-	key-TOLCDOWSSVGVIIYEMLVG-QPPPLAPT-	ADETTKIVNW-	EDHLOQFPADVDFVSE-SQDILRIL-	ROEERL-
LATS1.h	aarqhqrclASIVGT-PDYLAPIPEVLLR-	key-TOLCDOWSSVGVIIYEMLVG-QPPPLAPT-	ADETTKIVNW-	EDHLOQFPADVDFVSE-SQDILRIL-	ROEERL-
39944986.y	rnrcsnrtwsvVGT-SQYMAPEVVRG-	eky-DGRCPQDSSVGVIIYEMLVG-HTPPLSDE-	gRIOTKIVNW-	HSTFPAFSQPEAVSPRCQDMMSLIT-	DQDRL-
32420469.y	rnRCNRTSASIVGT-SQYMAPEVIEGK-	key-TOLCDOWSSVGVIIYEMLVG-QPPPLAPT-	ADETTKIVNW-	KETFHPRQPAVASRCQDMMSLIT-	RRL-
39970581.y	smRDVNVYASIVGT-SQYMAPEVLR-	key-DFTDVY-SLQCOLLPEALG-FPPPYAGAT-	AETETKIVNW-	KEVILRK-SWEDPNFLSNRSEADLITKCC-	SRSRFL-
32422039.y	TMRDRTNVIASIVGT-SQYMAPEVLR-	key-DFTDVY-SLQCOLLPEALG-FPPPYAGAT-	AETETKIVNW-	KEVILRK-SWEDPNFLSNRSEADLITKCC-	SRSRFL-
6321529.y	qlrEKEINYVIASIVGT-SQYMAPEVLR-	key-DFTDVY-SLQCOLLPEALG-FPPPYAGAT-	AETETKIVNW-	KEVILRK-SWEDPNFLSNRSEADLITKCC-	SRSRFL-
6325368.y	nmrKTEINYVIASIVGT-SQYMAPEVLR-	key-DFTDVY-SLQCOLLPEALG-FPPPYAGAT-	AETETKIVNW-	KEVILRK-SWEDPNFLSNRSEADLITKCC-	SRSRFL-
19113760.y	tllscdpwyasIVVGT-SQYMAPEVLR-	key-NSVDPWSSVGVIIYEMLVG-FPPPYAGAT-	AETETKIVNW-	RKCFQPRDLEFWVDDFWFCVHCIT-	DQDRL-

19075783.y alleEKNEKVN SVVGSPEYMAPEVVYGGF DRTVDY SLCLCIC YECUVC YPFPSGST LQETITN TNYYW REMLQRPs knen GIYDKKAR SVS DEAWSFIT KCLT DPTSFQ STIEIOKHPFF
19074474.y NIVYIMSGT CPEYMAPEVLLRS PDD CRADY GLCVMVIYEMLCG DPFPFYDSS ADATYKFLLES NVRATRIGK GICEIMCPFF
30681369.p LPNAASdDKACTFVGTAAYVPEVVLNS SPA TFGNDL ALACTLYQMLSC TSFPKDAS EWLIFORLIA RPKPNHSEADRLIDRLLDT DSRREG AGSEIYDSDLRKRPFF
18414583.p 1PnAASDDKACTFVGTAAYVPEVVLNS SPA TFGNDL ALACTLYQMLSC TSFPKDAS EWLIFORLIA RDCKFPNHESEADRLIDRLLDT DSRREGA VGEYVALKRPFF
AK073712 VLPFSTNERACTFVGTAAYVPEVVLNSA PP TFGNDL ALACTLYQMLSC TSFPKDAS EWLIFORLIA -DRIPPEYISDADRLIDRLLDT DSKRPG AGPDEYVLSKKHPFF
32564583.w DDHDLGIELTSOFAGTYWYLPPTFIV -PPPKI TCKVWDV SIIVIYQOCHG KKEFGNDLTQKILEBNHINA -REVSFSKPKPVVSSAQPFIIRRCLOY RKEEDPA DSRREG
17552082.w DDHDLGIELTSOFAGTYWYLPPTFIV -PPPKI TCKVWDV SIIVIYQOCHG KKEFGNDLTQKILEBNHINA -REVSFSKPKPVVSSAQPFIIRRCLOY RKEEDPA DVFEIPLAKHBF
34854790.m SYGVGDGMDSNQCGATWYLPPTCFVV GKEPKKI SNKVDV SVEVIBFOCHG KKEFGNDLQSQDILGENILKA TEVQFPVKPVVSSAQPFIIRRCLOY RKEEDPA DVHODLAPN PYL
27369956.z GKEPKKI SNKVDV SVEVIBFOCHG KKEFGNDLQSQDILGENILKA TEVQFPVKPVVSSAQPFIIRRCLOY RKEEDPA DVHODLAPN PYL
21357091.f -DDNYVHKALNLEAVANHFAVPE RPL TFRDVW SYCVVLYOLLLC -VFPYKVTHP GOLDLYCQV QYPSESELSE LSDAKDOLLEELLOL SPELRI
TLK1.h SYGVGDGMDSNQCGATWYLPPTCFVV GKEPKKI SNKVDV SVEVIBFOCHG KKEFGNDLQSQDILGENILKA TEVQFPVKPVVSSAQPFIIRRCLOY RKEEDPA DVHODLAPN PYL
31204337.i VNPDHGMDSLQCGATWYLPPTCFVV GKEPKKI SNKVDV SVEVIBFOCHG KKEFGNDLQSQDILGENILKA TEVQFPVKPVVSSAQPFIIRRCLOY RKEEDPA DVFDLAKEHBF
13592023.m DSKQARANSFVGTAQYVSPPLLNE KSA CKSSDL ALACIIYQMLSC LPPFRAGN EYLIFOKTIKL EYDFPEKFFFKARDLVEKLLVL
PDK1.h ESKQARANSFVGTAQYVSPPLLNE KSA CKSSDL ALACIIYQMLSC LPPFRAGN EYLIFOKTIKL EYDFPEKFFFKARDLVEKLLVL
6755020.m ESKQARANSFVGTAQYVSPPLLNE KSA CKSSDL ALACIIYQMLSC LPPFRAGN EYLIFOKTIKL EYHFPEKFFFKARDLVEKLLVL
17568523.w DEEEENTARRTEVGTAAIYVSPEMLAD GDV CPQDINGLCELCIFOCAG QPFERAVN QYHILKRIQEL DDFSPTRI NSQEAMRKFF
17568521.w EVPEENTARRTEVGTAAIYVSPEMLAD GDV CPQDINGLCELCIFOCAG QPFERAVN QYHILKRIQEL DDFSPTRI NSQEAMRKFF
17555466.w VEEBQPTGRRSFVGTAQYVSPPLLNG SEM SPSSDL AFVTLYLELTC IYVFNDMS EYLIFOKTIKL LYTFSEDFDFTDAKNLIESLLVK
31242445.i ppaCyp NKRGRASFVGTAQYVSPPLLNG TPS SPASDYM SYCTLYQMVCG VSPEFRAS EYLIFOKMLR EADKRLG ARDSPRTRYTROHAF
24654500.f rqrtrynrhrkasfvgtAQYVSPFVLON GBI TPADAL ACIVYOMIAG LPPFRGSN DYVIFKEIILDC DDFSPTRI NSQEAMRKFF
24654496.f rqrtrynrhrkasfvgtAQYVSPFVLON GBI TPADAL ACIVYOMIAG LPPFRGSN DYVIFKEIILDC DDFSPTRI NSQEAMRKFF
24654493.f rqrtrynrhrkasfvgtAQYVSPFVLON GBI TPADAL ACIVYOMIAG LPPFRGSN DYVIFKEIILDC DDFSPTRI NSQEAMRKFF
24654489.f rqrtrynrhrkasfvgtAQYVSPFVLON GBI TPADAL ACIVYOMIAG LPPFRGSN DYVIFKEIILDC DDFSPTRI NSQEAMRKFF
24654485.f rqrtrynrhrkasfvgtAQYVSPFVLON GBI TPADAL ACIVYOMIAG LPPFRGSN DYVIFKEIILDC DDFSPTRI NSQEAMRKFF
AK101032 dgKVTRSERNSRAFVGTAQYVSPPLLND KAS CSKSDL AFACIIYQMLSC LPPFRAGN EYLIFOKTIKL EYEFDGFDPARLVEKLLVL
39952305.y SARGSDGRRAASFVGTAEYVSPPLLNE KSA SKASDI AFACIIYQMLSC LPPFRAGN EYLIFOKTIKL EYEFPHGPSTSDARLVECLV
32404432.y 9QSGEDDERAASFVGTAEYVSPPLLNE KSA STASDI AEACIIYQMLSC LPPFKAGT EYLIFOKTIKL EYEFPPGPFSZARLVECLV
6320674.y SNGSKDNQNCASVGTAAIYVSPPLLNE NQC GYGSDI ALACMOMIQVCG QPFERAVN EYLIFOKTIKL RV
6324472.y KPEVDLSTRKSFVGTAEYVSPPLLNE SFT DYRCDI AFACIIYQMLSC LPPFKATIN EYLIFOKVVMK
6320698.y KpyfdlyAKRGRASFVGTAEYVSPPLLND NVT DSRCDI AFACIIYQMLSC LPPFRGSN DYVIFKEIILDC DDFSPTRI NSQEAMRKFF
19113086.y VNSPDYTTFBPSPFVGTAEYVSPPLLNG QVVKSKDIAFACIIYQMLSC LPPFRGSN EYLIFOKVVMK
19075942.y HHADKPQAEHRSFVGTAEYVSPPLLNG KTA GTASDI AFACIIYQMLSC LPPFKAVG EYLIFOKTIKL RV
AurC.h LRRKTTCGTDYLPPIEMI EG RY DEKVDI CIIVL CYELVG YPFESAS HSETYRRIKV
16755850.m LRRKTTCGTDYLPPIEMI EG RYH NEVDI CIIVL CYELVG NPFESPS HSETYRRIKV
23622050.m LRRKTTCGTDYLPPIEMI EG RYH NEVDI CIIVL CYELVG NPFESPS HSETYRRIKV
34147047.m LRRKTTCGTDYLPPIEMI EG RYH NEVDI CIIVL CYELVG NPFESAS HSETYRRIKV
AurB.h LRRKTTCGTDYLPPIEMI EG RYH NEVDI CIIVL CYELVG NPFESAS HSETYRRIKV
34854474.m LRRKTTCGTDYLPPIEMI EG RYH NEVDI CIIVL CYELVG NPFESAS HSETYRRIKV
10181114.m LRRKTTCGTDYLPPIEMI EG RYH NEVDI CIIVL CYELVG NPFESAS HSETYRRIKV
20862949.m SRRITTCGTDYLPPIEMI EG RYH DEKVDI SLEVLYCIEVLC MPPFEAHT YGETYRRIKV
23463275.m SRRITTCGTDYLPPIEMI EG RYH DEKVDI SLEVLYCIEVLC MPPFEAHT YGETYRRIKV
AurA.h SRRITTCGTDYLPPIEMI EG RYH DEKVDI SLEVLYCIEVLC MPPFEAHT YGETYRRIKV
1lmuc_AUR1 SRRITTCGTDYLPPIEMI EG RYH DEKVDI SLEVLYCIEVLC MPPFEAHT YGETYRRIKV
AurAps1.h SRRITTCGTDYLPPIEMI EG RYH DEKVDI SLEVLYCIEVLC MPPFEAHT YGETYRRIKV
17505246.w NKRQTCGTDYLPPIEMVNG ADD SDAVDIA AIVLVEFEGV KPFPEED QSNVTAAPKA EYTFDPDFTVGEGRADJISRUKHV
16805182.z KRQKRTFCGTDYLPPIEMVNG IY DCNVDI CLCIVIFELVCG KPFPEED QSNVTAAPKA EYTFDPDFTVGEGRADJISRUKHV
31225986.i NKRMRTTCGTDYLPPIEMVNG RY DSDVDONCLL CYELVG NPFPEFQS QTQTYDVKRRL
17137514.f NKRMRTTCGTDYLPPIEMVNG NY DSDVDONCLL CYELVG NPFPEFQS TESTYPLK MEISYPSHLSKCKELIGGEL PKEPLI
AK102360 PRRRTTCGTDYLPPIEMVNG TBH DYRVDI SLELIL YEGLYC VPFFEAKE HSETYRRIKV
15225210.P PRRRTTCGTDYLPPIEMVNG VEH DAVIDI SLELIL YEGLYC VPFFEAKE HSETYRRIKV
15233958.P PRRRTTCGTDYLPPIEMVNG VEH DAVIDI SLELIL YEGLYC VPFFEAKE HSDTYRRIKV
15225495.p NKRMRTTCGTDYLPPIEMVNG DDI DYAVDN TLELIL YEGLYC NPPFEAES QDDETRKRLKI
AK073918 PRRRTTCGTDYLPPIEMVNG KAH DAHDVN TLELIL YEGLYC NPPFEAES QDDETRKRLKI
17557200.w SKRITTCGTDYLPPIEMVNG OEH DFNVDI AICLLEMEVLC YAPFANQT GDKLJARIKE DlsFpstpyvsadakclickvkvffvlii piyvii vllslelrvk
31241687.i -SSRITTCGTDYLPPIEMVNG OH TKTVDI SLELIL YELLCG KAFPLATT YEETYRKLIMKV QYTPDPVTKASHLILRLLK DPAARM
17136516.f SSMRTTCGTDYLPPIEMVNG KHH TKTVDI SLELIL YELLCG HAFFPSKN YDETYKILLKV DPAARM
19074458.y KRRMTFCGTDYLPPIEMVNN DHGSHDIDLCLL YEFIMCG KUFESKN RNREAYKINSL QYTPETTISNSASEI RLLVL SPGDRM
39972053.y DRRITFCGTDYLPPIEMIK P RTADK Y DHRVDI ALACVLYEFLVG EAFFEDTP AMTKKUTTR DPKVRL
39974749.y NKRKRTTCGTDYLPPIEMIKS GNDKRN DCKVDI SLELIL YEFIVCG EAFFEDTP VMCRKJARA DPKVRL
32403162.y NLERRTTCGTDYLPPIEMIRS GS KDNWY NEKVDI SLELIL YEFIVCG EAFFEDTP IMCRKJARA DPKVRL
63250457.y ENRRKRTFCGTDYLPPIEMVNG REY DRTDAA ALACVLFELL TG APPFEEDM KDTIYRKAAL DPKVRL
19075216.y NRRRTTCGTDYLPPIEMVNG KHH TEKVDI SLELIL YEFIVCG APPFEEDM GHSAVTKRKA KV
34879357.m KPMyGgycgkhtcifpvttrAPMFMSS RKEEYC SFADVWV SLEVLYCIEVLC RRYHYIHS STSKEIVNMF ETAVI TYP SAMSAWV SLLKKLLEP
30520199.m ETRITITVAGTC P YMAPFEMFTS RKEEYC SFADVWV SLEVLYCIEVLC RRYHYIHS STSKEIVNMF ETAVI TYP SAMSAWV SLLKKLLEP
YANK1.h ETQIITITVAGTC P YMAPFEMFTS RKEEYC SFADVWV SLEVLYCIEVLC RRYHYIHS STSKEIVNMF ETAVI TYP SAMSAWV SLLKKLLEP
31203333.i DGLACMSGCK P YMAPFEMVFC ALEEIA Y SFVWDM SLEVLYCIEVLC RYFPEVHSSTPLAEVNTN
28573249.f NALACMSGCK P YMAPFEMVFC RYFPEVHSSTPLAEVNTN FVNGGHCY SFVWDM SLEVLYCIEVLC RWEYDHESS NAESIVQLP
17554256.w DQALATSY CPTPMAPIVLLRKA YIYAT YLETEDGY DSRVWDW ALACVLYEFLVG RTKPEAYVAF RSEHYPYPAHPTD
AK111189 HKPLTSKSGTAYLAPVWYEG KGY SCBVDW SLEVLYEFLVG KRFPEASS HDSIAKXISKG EPTYFPTSPVSPMFLCHAISSLBX
39977223.y PKVPLTSKSGTAYLAPVWYAG RGY DRADWV SLEVLYEFLVG KRFPEGGS ESSQVQIQAAD PNDKRMGA TWESFTRDFF
19075734.y SSPSKSKMIVGRGCPYMAPFEMFTS AVS YKESTDLLTFCQ KPFEPFHNL LINDRAS EEEkassad1sallahisRDKKLTTISKARSAVMAFEM
34861706.m GERATALAGTC P YMAPFEMFTS FVNGGHCY SFVWDM SLEVLYCIEVLC RWEYDHESS NAESIVQLP
10946600.m GERATALAGTC P YMAPFEMFTS FVNGGHCY SFVWDM SLEVLYCIEVLC RWEYDHESS NAESIVQLP
YANK3.h GERATALAGTC P YMAPFEMFTS FVNGGHCY SFVWDM SLEVLYCIEVLC RWEYDHESS NAESIVQLP
33468971.m SEKASSMAGTC P YMAPFEMFTS YVDGCGY SYFVWDM SLEVLYCIEVLC RWEYDHESS ATIDEIINLYFKV
34878555.m wglalgsvllehptfakcc P YMAPFEMFTS YVDGCGY SYFVWDM SLEVLYCIEVLC RWEYDHESS ATIDEIINLYFKV
YANK2.h AERASMSAGTC P YMAPFEMFTS YMDRGCY SYFVWDM SLEVLYCIEVLC RWEYDHESS VIPDEHILNMP
23509142.z ETNLTKSGCPEYLAPEVLLRKG KHH CKAVDW SLEVLYCIEVLC RWEYDHESS RNLFLEEIHYKO
30680612.P EENTRNSNGCPEYMAPEVLLRKG KHH CKAVDW SLEVLYCIEVLC RWEYDHESS RNLFLEEIHYKO
15231959.p EENTRNSNGCPEYMAPEVLLRKG KHH CKAVDW SLEVLYCIEVLC RWEYDHESS RNLFLEEIHYKO
AK066191 NENDRNSNGCPEYMAPEVLLRKG KHH CKAVDW SLEVLYCIEVLC RWEYDHESS RDKVQKIVKB
AK072649 ENTRNSNGCPEYMAPEVLLRKG KHH CKAVDW SLEVLYCIEVLC RWEYDHESS RDKVQKIVKB
34861515.m TEKEERTSFSGCPEYMAPEVLLRKG KHH CKAVDW SLEVLYCIEVLC RWEYDHESS RDKVQKIVKB
9910454.m TEKEERTSFSGCPEYMAPEVLLRKG KHH CKAVDW SLEVLYCIEVLC RWEYDHESS RDKVQKIVKB

SGK2.h PEDITSTFCGCTPEYLAPAEVLRK- ePY-DRAVDWWCLQCVLYEMIIG LPPPSYSQD VSQMYENIIHQ PLQIPGGRIVANQCDLQLQSLLHK DQRQRLO- SKADFIEIIRNNHF
40363533.d EPNTTTSTFCGCTPEYLAPAEVLHK- qPY-DPRTDWWCLQCVLYEMIIG LPPPSYSRN TAEEMYDNIIINK PLQLKINISNAEARPLLEGLLQK DRKRLCIF TDDFEIIRNNHF
9507903.m EHNGTTSTFCGCTPEYLAPAEVLHK- qPY-DPRTDWWCLQCVLYEMIIG LPPPSYSRN TAEEMYDNIIINK PLQLKNIISNAEARPLLEGLLQK DRKRLCIF TDDFEIIRNNHF
6755490.m EHNGTTSTFCGCTPEYLAPAEVLHK- qPY-DPRTDWWCLQCVLYEMIIG LPPPSYSRN TAEEMYDNIIINK PLQLKNIISNAEARPLLEGLLQK DRKRLCIF TDDFEIIRNNHF
SGK.h EHNSTTSTFCGCTPEYLAPAEVLHK- qPY-DPRTDWWCLQCVLYEMIIG LPPPSYSRN TAEEMYDNIIINK PLQLKNIISNAEARPLLEGLLQK DRKRLCIF TDDFEIIRNNHF
19115752.y SVGTTTSTFCGCTPEYLAPAEVLDe aPY-DMMWDFSLGVLVLFEMCCG WSPSPYAAD TQOYKRNIAFG KVRPFQNLISWEARDLTKHLNNR
39950824.y AQNDTTSTFCGCTPEYLAPAEVLDe aPY-DMMWDFSLGVLVLFEMCCG WSPSPYAAD TQOYKRNIAFG KVRFFKDILSVEEAFVKGLLNR NPKRLCIA TMDAELRQHPF
32420385.y TKNDTTSTFCGCTPEYLAPAEVLDe aCY-DMMWDFSLGVLVLFEMCCG WSPSPYAAD TQOYKRNIAFG KVRFFRDILSVEEAFVKGLLNR NPKRLCIA TDDABELRRAFF
6321999.y KERTTTSTFCGCTPEYLAPAEVLDe tCY-DMMWDFSLGVLVLFEMCCG WSPSPFAEN NKCKMYKIAFG KVKFRDVLSCCEGSFVKGLLNR NPKRLCIA TDDGEELRHPF
19114666.y SANATTTFCGCTPEYLAPAEVLLED kCY-DKQVDFSLGVLVLFEMCCG WSPSPYAAD VOOYKRNIAFG KVRFFKGVLSEEEFSFVRGLLNR NPNERLCA VADTEELKEHPF
6322723.y DDKPTTSTFCGCTPEYLAPAEVLLD- lCY-DKAVDFSLGVLVLFEMCCG LPPPYDED VPKMYKIIQE PLVFPDCFDRAKDLIIGLLSR DPKPRLCIF Y- NGABEIRNHPF
6323751.y DNKKTDTSTFCGCTPEYLAPAEVLLG- gCY-DKAVDFSLGVLVLFEMCCG LPPPYDEN VEVMYKIIQ PLVFPDCFDRAKDLIIGLLSR DPKPRLCIF NGTEIRNHPF
39977393.y DEDHTTSTFCGCTPEYLAPAEVLLG- kCY-DKAVDFSLGVLVLFEMCCG LPPPYDEN TNEMYKIIIQ PLDFPGPEVVPPFAAOQLLRRKILLDR DPKPRLCIF SPERGRGAPEIIRNNHF
32414173.y DEEPDTTSTFCGCTPEYLAPAEVLLG- nCY-NKAVDFSLGVLVLFEMCCG LPPPYDEN TNEMYKIISE PLHFGPGEVPPFAAOQLLRRKILLDR DPKPRLCIA NGABEIRNHPF
19075510.y KTRDTTSTFCGCTPEYLAPAEVLLG- hCY-DKAVDFSLGVLVLFEMCCG LPPPYDEN TNEMYKIIOD PLREPONIDKARDLNLIGLLR APEKRLCIA SGCAEIIRNNHF