

	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	20		
19075783.y	FDLVYKLGQFGYGVWMAKKCEN	THEIJAAMKMKKSTLQLQIN	EVKHILNNEEDLTININ	SELVVKLYAFQDK-EKVYLA	GDFTFRTFDTTKG	LLHNDQFQRFYDAEVAI	AISAVHKGIG	YHMRDLKEPNFLIDK	GHIKLSDFOLSCAIVTSNQ	KNENKV												
19113760.y	FOTIFQVGQGYCGVCMKBRKD	TKEIVAKLIIKNSKVLFRKD	EIRHVLTERDIDLTITAN	SELVVKLYAFQDT-SNIYLA	GDFTFRTLTSNSG	VLRDQHAFYTMELAID	LHQLG	YHMRDLKEPNFLVCA	GHIKLSDFOLSSGIISKKK	QDPVIA												
Dbf20.y	FILVQCVQGYCGVCMKBRKD	SDEIKAALCKNKKLFRKLIN	EINHVLTERDIDLTITR	SDLVKLYAFQD-ESLYLA	GDFTFRTLTLINTR	ILKSQHAFYTMISEMC	CNAVLNLHGLG	YHMRDLKEPNFLVCA	GHIKLSDFOLFAQTGSNER	TEINYA												
Dbf2.y	PEMIQCVQGYCGVCMKBRKD	TKEIVAKLIIKNSKVLFRKD	EKHLVHTERDIDLTITR	SELVVKLYAFQDL-O	GDFTFRTLTLINTR	CLKSQRHAFYTMISEMC	CNAVLNLHGLG	YHMRDLKEPNFLIDK	GHIKLSDFOLFAQTGSNER	KEINYA												
19112278.y	FULLKEIEIFRGAGCRVYLAKKGS	SGKVPALKMKTQKSSLDSLK	KKGGLLLEKRNHHICRY	GPNTVKLYAFDSC-DYL	GDCTELIIOKG	PLPQWVCGVAAELLNAI	EELHDQG	IITHEDTICKPANMLVDET	GHIKLSDFOLSENVEEKKE	-TFPIK												
19075810.y	YNKFLKPSIKRQGCVVPLM	TGDYIKAIIKKNSKVLFRKD	QVINRAEKSIAIMMSQE	SPFVAKLVMYEQNG	GDGSPKLTIMG	VLDLWRITRHPVCP	CLGDFLDRG	IIIIHRDLKEPNFLLISQN	GHIKLSDFOLGSRVGYMKR	NKDKPS												
14318486.y	MIDLKLKPIKCGAYCVVPLRKKL	TGDYIKAIIKKNSKVLFRKD	QVINRKSERAIMVMSQD	KPYVARLAPSONQ	DNLFLKQDGT	YLFQWAKOMYLTETVV	VNMHDONG	IITHEDTICKPANMLVDET	GHIKLSDFOLGSRVGYMKR	DODKPS												
24648052.f	FVIIKPIIDRQAFGKVKYQKNN	DSKRFLAIKVNFKSKBMINNK	MYSVSIITTEENABSLR	SOFCVSLEYSHQSL	SYVYLVMEYMG	GDLKSD1SMALPQY	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
15241795.p	FEIIKPIIDRQAFGKVKYQKNN	TGDYIKAIIKKNSKVLFRKD	NAVESILAEERDIIINAR	NPFVVRREYSESTC	SENLYLVMEYNG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
18402213.p	PEVVKMSIIRQAFGCVVPLRKK	TGDYIKAIIKKNSKVLFRKD	NAVESILAEERDIIINAR	NPFVVRREYSESTC	SENLYLVMEYNG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
30684702.p	PEIIKPIIDRQAFGKVKYQKNN	TGDYIKAIIKKNSKVLFRKD	NAVESILAEERDIIINAR	NPFVVRREYSESTC	SENLYLVMEYNG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
AK106515.q	PEIIKPIIDRQAFGKVKYQKNN	TGDYIKAIIKKNSKVLFRKD	NAVESILAEERDIIINAR	NPFVVRREYSESTC	SENLYLVMEYNG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
19075145.y	YEIVKVKVKGCVGEVFLVREKK	ITYAMRKSVKEEVLQKOP	HATFLAMAEKAEVMDICIG	SEWCVHCFMNTQDE	EDYLYSPD	EDFNGLDSKED	VLEDVPRVYQYAFOD	NPFVVRREYSESTC	SENLYLVMEYNG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN								
20841360.m	CRIK.m	FEVRSLVCGCGFAEVQVUREKA	GDVYAMKVKKKALLAO	EOVSFFEEENRNIISRST	SPWVQOLQYAFOD	NPFVVRREYSESTC	SENLYLVMEYNG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN										
24665340.f	FEIIKLIQICQFGFVNVFVSE	TNDIYAMKIKRKSQVIT	TSQVKEEREDINSIRN	SELDIISMVNSRQGP	GDLLSISN	DNLYLVMYEMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
14192945.m	FEILKVKIGRCAFSEVAVVVKM	GOVYAMKVKKKNDMLKR	GEVSCFRERDVIVVKG	GDLLSISN	DNLYLVMYEMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
27676600.r	DMPK1.h	KQ	TGCVYAMKVKKKNDMLKR	GEVSCFRERDVIVVKG	GDLLSISN	DNLYLVMYEMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
27661270.r	DMPK2.h	FEILKVKIGRCAFGEVAVVVKR	SGOIFAMKVKKKNDMLKR	ETACFCEERDVIVVKG	GDLLSISN	DNLYLVMYEMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
24762562.f	FEILKVKIGRCAFGEVAVVVKR	TECVYAMKIKRKSQVIT	ETACFCEERDVIVVKG	GDLLSISN	DNLYLVMYEMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
31240045.a	FEVVKVIGRCAFGEVWVMMH	TSQVKEEREDINSIRN	ETACFCEERDVIVVKG	GDLLSISN	DNLYLVMYEMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
25145908.w	FEVVKVICKGAFGEVAVVVRM	VGEIYAMKVKKKNDMLKR	AETACFCEERDVIVVKG	GDLLSISN	DNLYLVMYEMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
MRCKb.h	FEILKVKIGRCAFGEVAVVVKR	PERIYAMKVKKKNDMLKR	ADKFVAMKVKKKNDMLKR	ETACFCEERDVIVVKG	GDLLSISN	DNLYLVMYEMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
16758474.r	FEILKVKIGRCAFGEVAVVVKR	ADKFVAMKVKKKNDMLKR	ETACFCEERDVIVVKG	GDLLSISN	DNLYLVMYEMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
16758420.r	FEILKVKIGRCAFGEVAVVVKR	PERIYAMKVKKKNDMLKR	ETACFCEERDVIVVKG	GDLLSISN	DNLYLVMYEMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
6677759.m	YEVVVKVIGRCAFGEVOLVRK	RKVYAMKLLSKFEMI	SDSAFTWEENDIMAFAN	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
6677761.m	YEVVVKVIGRCAFGEVOLVRK	QKYYAMKLLSKFEMI	SDSAFTWEENDIMAFAN	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
ROCK2.h	YEVVVKVIGRCAFGEVOLVRK	SOKYAMKLLSKFEMI	SDSAFTWEENDIMAFAN	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
ROCK1.h	YEVVVKVIGRCAFGEVOLVRK	TRKVYAMKLLSKFEMI	SDSAFTWEENDIMAFAN	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
6981478.r	YEVVVKVIGRCAFGEVOLVRK	SOKYAMKLLSKFEMI	SDSAFTWEENDIMAFAN	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
13592049.r	YEVVVKVIGRCAFGEVOLVRK	SDSAFTWEENDIMAFAN	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN												
31203491.a	FELLVICKGAFGEVLLVVRKA	TROYAMKRSQKSYMTTRS	DTAFTWEENDIMAFAN	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
24642569.f	FELLVICKGAFGEVLLVVRKA	SSCVYAMKRSQKSYMTTRS	PDSAFWEEENDIMAFAN	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
17508247.w	FROLKVICIGRCAFGEVWVMM	TNTVYAMKVKKKNDMLKR	ADAFWEEENDIMAFAN	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
18416116.p	FELLVICKGAFGEVLLVVRKA	TSEVYAMKIKRKSQVIT	SNIYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN										
2742.t06.q	FELLVICKGAFGEVLLVVRKA	TSEVYAMKIKRKSQVIT	SNIYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN										
9558485.q	FELLVICKGAFGEVLLVVRKA	TSEVYAMKIKRKSQVIT	SNIYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN										
15234064.p	FELLVICKGAFGEVLLVVRKA	SGNYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
18399030.p	FELLVICKGAFGEVLLVVRKA	TGNYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
15221465.p	FELLVICKGAFGEVLLVVRKA	TGSVYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
16418172.q	FDLIMKICGAFGEVLLVVRKA	GNVYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
22331282.p	FDLIMKICGAFGEVLLVVRKA	TGNVYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
30682811.p	FDLIMKICGAFGEVLLVVRKA	TGNVYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
30682806.p	FDLIMKICGAFGEVLLVVRKA	TGNVYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
15225358.p	FELLVICKGAFGEVLLVVRKA	TGNYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
15219591.p	FELLVICKGAFGEVLLVVRKA	TGNYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
5596.t09.q	FELLVICKGAFGEVLLVVRKA	TGSVYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
AK101120.q	FELLVICKGAFGEVLLVVRKA	KNVYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
32566202.w	FELLVICKGAFGEVLLVVRKA	TGNYAMKLLSKFEMI	GEVHVRSEENRNI	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
24667016.f	FELLVICKGAFGEVLLVVRKA	TGHVYAMKIKRKSQVIT	EDVYAHRAEDIIIV	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
31213155.a	FEALKVICKGAFGEVLLVVRKA	TGHVYAMKIKRKSQVIT	EDVYAHRAEDIIIV	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
19527344.m	FELLVICKGAFGEVLLVVRKA	TGHVYAMKIKRKSQVIT	EDVYAHRAEDIIIV	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
NDR1.h	FELLVICKGAFGEVLLVVRKA	TGHVYAMKIKRKSQVIT	EDVYAHRAEDIIIV	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
NDR2.h	FELLVICKGAFGEVLLVVRKA	TGHVYAMKIKRKSQVIT	EDVYAHRAEDIIIV	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
27370078.m	FELLVICKGAFGEVLLVVRKA	TGHVYAMKIKRKSQVIT	EDVYAHRAEDIIIV	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
27713631.r	FELLVICKGAFGEVLLVVRKA	TGHVYAMKIKRKSQVIT	EDVYAHRAEDIIIV	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
19114077.y	FSTIIVICKGAFGEVLLVVRKA	TGKHYAMKSLKITE	QLAHVKAEDIIIV	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
Cbk1.y	FSTIIVICKGAFGEVLLVVRKA	TGKHYAMKSLKITE	QLAHVKAEDIIIV	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDFOLGSLKIDMhrd	r-garvSN											
31208821.a	FAKIKLTCIIGAFGEVLLVVRKA	TNHLYAMKIKRKSQVIT	NOAVHYKAEDIIIV	SPWVQOLQYAFOD	RDYL	YLVMEYMG	GDFYFSMLRKIGC	EDPPTARFYVAEMVALQYH	GIVHRLDIKEPNFLDSSS	GHIKLSDF												

30697007.p EKEPKLPLGSCDPTGSVHIVELKG TGEDYAMKMBKIMMNR NKAHRACHEREIIISILD HPFLPDLYASFQ -- STHVCLTTDFCPG GETFAILDQPKM ILIEDSARFYAAEVVVISLEYHLCL GIVYRDLPLPEVNLIEKKD GHIQLADFDLSFMtctpgiaepstQGS
15231245.p EPRVKPLGSCDPTGSVHIVELVG TGDPLFAMKMDKAVMLN R NKAHRACHEREIIISILD KHPFLPDLYASFQ -- KTHVCLTTDYPG GELFVMLDLPQPKR VLIKEDAVFYAAQVVVALELYHQ CIIYRDLPLPEVNLIGQN
AK065447.p EPRVKPLGSCDPTGSVHIVELLN G EYFAMKMDKIMLNR NKAHRACHEREIIISILD KHPFLPDLYASFQ -- KTHVCLTTDYPG GELFVMLDLPQPKR VLIKEDAVFYAAQVVVALELYHQ CIIYRDLPLPEVNLIGRN
AK066816.q EPRVKPLGSCDPTGSVHIVELLN G EYFAMKMDKIMLNR NKAHRACHEREIIISILD KHPFLPDLYASFQ -- KTHVCLTTDYPG GELFVMLDLPQPKR VLIKEDAVFYAAQVVVALELYHQ CIIYRDLPLPEVNLIGRN
15230825.p LEVLSILRQAKCIVLVRDOD AKLIVAKVILKGAIEKKKggresEDDSKRVSPFQCVLSRFD HPLPFLYHGVLAT DKV1CYAIDYCPG QNINSLRKMOSES MFSDELIIRPFYAAELVLAIDYLHNQ CIVYRDLPLPEVNLIGEN
15235548.p LEVLSILRQAKCIVLVRDOD NKWLALKVILRSFESRKSNC AKDZYKRISEQCVLSEF DPLRDLNRLKKQSEE MFSDELIIRPFYAAELVLAIDYLHNQ CIVYRDLPLPEVNLIGEN
18403402.p LKVILKLIGKATCVLVEHVDSVSDSSVsspFAALKLWDKSSASSL RRARWEICILRLRISdnn NPFLPKLASSSES SEFJAWALPYCSC GDLINVLRORQNDG VESSSSVIKFYIAEVICALDHLHITM GAYRDLPLPEVNLIQES
15232374.p IKAIIKILIGKATCVLVEAHDVSTs SSSPFAVLPKPKSSASSL RRARWEICILRLRISdnn NPFLPKLASSSES PEYFWAWVPYCSC GDLINVLRORQNDG VESSSSVIKFYIAEVICALDHLHITM GAYRDLPLPEVNLIQES
3605.t06.q VRAVRVILRQAMCIVHVARAADDAGac YIYALKVEDKRSVVASaarQGD AARRARVEVSLSOLA R IIPSLGRAPCF GDLIVAWAVPCHG GDLINERLHQDQPR VFSPPAIRFYVAELVSAPEHAAG
30692190.p LRFLRLRQGSCDPTGSVHAKSL TAVLILRQAMKDKKELASR SKGRAKRATEREIIISLD HPLPFLPMLYPAIDS KWMCLLTERCPG GDLHVLRLRORQH RPSAEVRFYSESVIATEYMLM GIVYRDLPLPEVNLIRSD
7403.t09.q FTLVRRVPAACDICHVYMLCRDCKRGKAgpCEYAMKVKDRRALKKG KLGRAAMEKRLRQLD HPLPFLPMLYPAIDS KWMCLLTERCPG GDLHVLRLRORQH RPSAEVRFYSESVIATEYMLM GIVYRDLPLPEVNLIRAD
AK106290.q EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLRQLD HPLPFLPMLYPAIDS KWMCLLTERCPG GDLHSLRHLHMPSR RFLPLPSARFYAAEVLLAIEYLHMG
15226800.p ERMIRMRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLRQLD HPLPFLPMLYPAIDS SHFSICIVMECPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
AK101660.q EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLRQLD HPLPFLPMLYPAIDS SHFSICIVMECPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15225776.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
7143.t20.q LHLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15220907.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15231840.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
AK107126.q EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
AK065005.q EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
30693721.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
30693719.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15227639.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15242814.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15242554.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
30689844.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15232201.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15238798.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15241076.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15236802.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15219322.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15219253.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
15230566.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
AK100261.q EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
AK065888.q EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
AK100536.q EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
AK103656.q EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
AK070835.p EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
8302.t12.q EKLVRVLRQGSCDPTGSVHMLCRSsPEREPCHYAMVVKDRRAVLRQ KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
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19111951.y EFLNQIPLTGSFGRVHIVELVQH N RLYYALKVLB EKKKIVDMK QIETHTCDERMLVFRVQ HPLFPLTDFCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
Tpk2.y PQIMRDTGSGFGRVHIVELVQH N RLYYALKVLB EKKKIVDMK QIETHTCDERMLVFRVQ HPLFPLTDFCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
Tpk3.y PQIIRDTGSGFGRVHIVELVQH N RLYYALKVLB EKKKIVDMK QIETHTCDERMLVFRVQ HPLFPLTDFCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
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31240527.a TICGTCFGRVCLCRKII TNCYVAKMLIADMLVRL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
24664872.f YOIIKTYTGTGCFGRVCLCRKII ISEKYYCALKILAMTEVIRL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
28574900.f YOIIKTYTGTGCFGRVCLCRKII ISEKYYCALKILAMTEVIRL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
25151367.w DERHTTICKGCFGRVCLCRKII TGAHYALKVLNIRVVDM KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
17567857.w DERHTTICKGCFGRVCLCRKII TGAHYALKVLNIRVVDM KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
23956080.w WDTHTATVGTGCFGRVNLVVKTKTG ROYCALKIMSIEDVIRL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
27709130.r VOTCHTGFGRVNLVVKTKTG GRRYCALKIMSIEDVIRL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
PRKY.h CDAVTMGTGCFGRVNLVVKTKTG AKIFFALFKVMWSIDVIRL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
PRKX.h EDTATVGTGCFGRVNLVVKTKTG AKIFFALFKVMWSIDVIRL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
28572002.f YITTRAVLNGSCFGVHIVELVQH GKNYYAKMMMSKD LVLRL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
17864122.f YITTRAVLNGSCFGVHIVELVQH GKNYYAKMMMSKD LVLRL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
24651482.f YEIKATLGSFGCFGRVNLVVKTKTG SGVYYAKSKLDCIVKLT KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
31224299.a YEIKATLGSFGCFGRVNLVVKTKTG SGVYYAKSKLDCIVKLT KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
31242643.a PERIKTGTGCFGRVNLVVKTKTG TDKYVAMKILDDKVVKL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
24583100.f PERIKTGTGCFGRVNLVVKTKTG TDKYVAMKILDDKVVKL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
17136902.f PERIKTGTGCFGRVNLVVKTKTG TDKYVAMKILDDKVVKL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
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27698444.r MUVKKGTAQYYAMKILDDKVVKL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD
27679992.r MUVKKGTAQYYAMKILDDKVVKL KLGRAAMEKRLGMLD HPLPFLPMLYPAIDS SHYFLVMEYCPG GDLHSLRHLHMPSR GIVYRDLPLPEVNLIRAD

655076.m FERKKTLETCGSGCRVMLKMKRKA - EQYIYAMIKEDDKQKVWL KQDEHTLNEDRILIIQAVF PPFLVRLRLEYSFYKDND - SNLYMVMMEYVG GJEMPSHSLRRIGR FSPDPHARFYAQCIVLTFEYLHSL DLIYRDLKPNENLLIDHQ GYIQVTDFFAKRV kGRT
 PKAC.b.h FERKKTLETCGSGCRVMLKMKRKA - TEQYIYAMIKEDDKQKVWL QDEHTLNEDRILIIQAVF PPFLVRLRLEYSFYKDND - NSLYMVMMEYVG GJEMPSHSLRRIGR FSPDPHARFYAQCIVLTFEYLHSL DLIYRDLKPNENLLIDHQ GYIQVTDFFAKRV kGRT
 PKAc.h FERKKTLETCGSGCRVMLKMKRKA - PERIKTLETCGSGCRVMLKMKRKA TGNAYAMIKEDDKQKVWL QDEHTLNEDRILIIQAVF PPFLVRLRLEYSFYKDND - NSLYMVMMEYVG GJEMPSHSLRRIGR FSPDPHARFYAQCIVLTFEYLHSL DLIYRDLKPNENLLIDHQ GYIQVTDFFAKRV kGRT
 7110693.m FDRIKTLETCGSGCRVMLKMKRKA - GNYIYAMIKEDDKQKVWL KQDEHTLNEDRILIIQAVF PPFLVRLRLEYSFYKDND - SNLYMVMMEYVG GJEMPSHSLRRIGR FSPDPHARFYAQCIVLTFEYLHSL DLIYRDLKPNENLLIDHQ QGYIQVTDFFAKRV kGRT
 AK072649.q FEVVLKLVCQGAFGKVKFCVRKGKT - SEIYAMKVMRDKILEKKN TGNAYAMIKEDDKQKVWL HAEYMAKAEDDILTKD PEFVVOQFYSFOT - KYRLYLVLDLDFING GJELFFCQYHQQL FSPDPHARFYAQCIVLTFEYLHSL DLIYRDLKPNENLLIDHQ QGYIQVTDFFAKRV kGRT
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 15231960.p FEVVLKLVCQGAFGKVKFCVRKGKT - SEIYAMKVMRDKILEKKN TGNAYAMIKEDDKQKVWL HAEYMAKAEDDILTKD PEFVVOQFYSFOT - KYRLYLVLDLDFING GJELFFCQYHQQL FSPDPHARFYAQCIVLTFEYLHSL DLIYRDLKPNENLLIDHQ QGYIQVTDFFAKRV kGRT
 30680612.p FEVVLKLVCQGAFGKVKFCVRKGKT - SEIYAMKVMRDKILEKKN TGNAYAMIKEDDKQKVWL HAEYMAKAEDDILTKD PEFVVOQFYSFOT - KYRLYLVLDLDFING GJELFFCQYHQQL FSPDPHARFYAQCIVLTFEYLHSL DLIYRDLKPNENLLIDHQ QGYIQVTDFFAKRV kGRT
 15231959.p FEVVLKLVCQGAFGKVKFCVRKGKT - SEIYAMKVMRDKILEKKN TGNAYAMIKEDDKQKVWL HAEYMAKAEDDILTKD PEFVVOQFYSFOT - KYRLYLVLDLDFING GJELFFCQYHQQL FSPDPHARFYAQCIVLTFEYLHSL DLIYRDLKPNENLLIDHQ QGYIQVTDFFAKRV kGRT
 Ybr028c.y FCGEVRLGTYAGYKVKLWVVDNT - SKLYAMKQDKRKAIIISQSFTDGL SKRPERTPAERSIISEI BPPNTIVKLEYSHSDN - SKLYLILLOYIIG GJELFYBKEHG FRCDDARVYTAETIVSAVSHLBHK GIMHRDLKPNENLLIDFD GHWMLTDPLAKEFe enIrs
 19075330.y FOPFLVLRGSYCGVLLVCKPNT TSKLYAMKQDKRKAIIISQSFTDGL SKRPERTPAERSIISEI BPPNTIVKLEYSHSDN - SKLYLILLOYIIG GJELFYBKEHG FRCDDARVYTAETIVSAVSHLBHK GIMHRDLKPNENLLIDFD GHWMLTDPLAKEFe enIrs
 21356509.f FRIILRVLCTGAYGRVFLVRLKLT RhdAGKLYAMKVNKIIIVVOKR KTAEHHTTERVUVEIAQ PEFPLVLSLHQAPOSS SKLYLILDFDANG GELPTHYHSEN FESRSRVVYVAFYDAETLALHLKL LGIVYRDLKPNENLLIDAE GHWMLTDPLAKEFe enIrs
 24662468.f FRIILRVLCTGAYGRVFLVRLKLT RhdAGKLYAMKVNKIIIVVOKR KTAEHHTTERVUVEIAQ PEFPLVLSLHQAPOSS SKLYLILDFDANG GELPTHYHSEN FESRSRVVYVAFYDAETLALHLKL LGIVYRDLKPNENLLIDAE GHWMLTDPLAKEFe enIrs
 31216024.g FALLKLVLCGTYAGYKVKFLVRLKAGGD AGKLYAMKVNKAALVORA KTOQEHTTRTERVISELVRQ APFLVTLTLYQAFQT DKLHLILLYDVG GELPTHYROY FCAEVRYVGGELVLAELHLKL GIIYRDLKPNENLLIDSE eekBRT
 MSK2.h FELLKLVLCGTYAGYKVKFLVRLKAGGD AGKLYAMKVNKAATIVOKA KTTTEHTRTERVQIEHBR QSPFLVTLTLYQAFQT DKLHLILLYDVG GELPTHYROY FCAEVRYVGGELVLAELHLKL GIIYRDLKPNENLLIDSE eekBRT
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 25052537.m MKVLKKAATIVOKA KTTTEHTRTERVQIEHBR QSPFLVTLTLYQAFQT DKLHLILLYDVG GELPTHYROY FCAEVRYVGGELVLAELHLKL GIIYRDLKPNENLLIDSE eekBRT
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 32563675.w FELLKLVLCGTYAGYKVKFLVRLKAGGD TGKLYAMKVNKAATIVOKA KQDEHTLNEDRILIIQAVF PPFLVRLNLYQAFQT DKLHLILLYDVG GELPTHYROY FCAEVRYVGGELVLAELHLKL GIIYRDLKPNENLLIDSE eekBRT
 17567363.w FELLKLVLCGTYAGYKVKFLVRLKAGGD DEPEITIYAMKVNKAATIVOKA KDMVREHEKIIITLH NPFEMKMYSFOTK RHLVYVMPFAGC QDMALTMENE CLIPESBFYICLVE EGTLYHLKX GIVYRDLKPNENLLIDND GHWMLTDPLAKEFe enIrs
 17569233.w FELLKLVLCGTYAGYKVKFLVRLKAGGD DEPEITIYAMKVNKAATIVOKA KDMVREHEKIIITLH NPFEMKMYSFOTK RHLVYVMPFAGC QDMALTMENE CLIPESBFYICLVE EGTLYHLKX GIVYRDLKPNENLLIDND GHWMLTDPLAKEFe enIrs
 17567137.w FELLKLVLCGTYAGYKVKFLVRLKAGGD DEPEITIYAMKVNKAATIVOKA KDMVREHEKIIITLH NPFEMKMYSFOTK RHLVYVMPFAGC QDMALTMENE CLIPESBFYICLVE EGTLYHLKX GIVYRDLKPNENLLIDND GHWMLTDPLAKEFe enIrs
 31208057.a FEMPRVLLKGFGFGEVACONRA TGKMYAKCQKKEKKRKKR KGEBSMVLIEKQIQQKIN SRFVNNLILAYATEK DALCLVLTIDNG GDFLKFHYNMGBEGG GDFDKRQYFVYAEIIICLVE EGTLYHLKX GIVYRDLKPNENLLIDDD dnBPI
 17136724.f FEMPRVLLKGFGFGEVACONRA TGKMYAKCQKKEKKRKKR KGEBSMVLIEKQIQQKIN SRFVNNLILAYATEK DALCLVLTIDNG GDFLKFHYNMGBEGG GDFDKRQYFVYAEIIICLVE EGTLYHLKX GIVYRDLKPNENLLIDDD dnBPI
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 31206439.a FENIKVVKLGKGSGFKVMAEKGK TDELYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDSD VYVYDLKEDNLLDTE GYVYDLKEDFCLKECMGY gndKT
 13592027.r FEFIRVKLGKGSGFKVMAEKGK TDELYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDSD VYVYDLKEDNLLDTE GYVYDLKEDFCLKECMGY gndKT
 31543511.m FEFIRVKLGKGSGFKVMAEKGK TDELYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDSD VYVYDLKEDNLLDTE GYVYDLKEDFCLKECMGY gndKT
 6755084.m FENIKVVKLGKGSGFKVMAEKGK TDELYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDSD VYVYDLKEDNLLDTE GYVYDLKEDFCLKECMGY gndKT
 PKC.e FENIKVVKLGKGSGFKVMAEKGK TDELYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDSD VYVYDLKEDNLLDTE GYVYDLKEDFCLKECMGY gndKT
 17542634.w FNLKVVKLGKGSGFKVMAEKGK KNEYAYAKKKDVILGR DDTECTYIIEVRLVILAS CFPFLCOLFCFOPT -EYLFVMEYING GDMMIHDQIKK FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO enGMA
 17542632.w FNLKVVKLGKGSGFKVMAEKGK KNEYAYAKKKDVILGR DDTECTYIIEVRLVILAS CFPFLCOLFCFOPT -EYLFVMEYING GDMMIHDQIKK FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO enGMA
 24641525.f FNLKVVKLGKGSGFKVMAEKGK TYYAIKKAKKKDVILGR DDSTLLIEERKVLALGT HPIYCHLFCFOPT -SHELFVMEYING GDMMIHDQIKK FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO ldkTA
 31203461.a FNLKVVKLGKGSGFKVMAEKGK SDYYAIKKAKKKDVILGR DDSTLLIEERKVLALGT HPIYCHLFCFOPT -SHELFVMEYING GDMMIHDQSGR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO ldkTA
 6679353.m FNLKVVKLGKGSGFKVMAEKGK TNPQFAIKAKKKDVILGR DDTECTMTEKRLILALAR HPIYCHLFCFOPT -DRLFVMEYING GDMMIHDQSRK FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO ldkTA
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 6755082.m FNLKVVKLGKGSGFKVMAEKGK DKYAIKKAKKKDVILGR DDTECTMTEKRLILALAR HPIYCHLFCFOPT -DRLFVMEYING GDMMIHDQSRK FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO enGMA
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 32566197.w FNLKVVKLGKGSGFKVMAEKGK TKELFAIKVKKKDVIICDT DDTECTMTEKRLILALAR HPIYCHLFCFOPT -DRLFVMEYING GDMMIHDQSGR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO gdtAT
 25146870.w FNLKVVKLGKGSGFKVMAEKGK TKELFAIKVKKKDVIICDT DDTECTMTEKRLILALAR HPIYCHLFCFOPT -DRLFVMEYING GDMMIHDQSGR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO gdtAT
 31239753.a FNLKVVKLGKGSGFKVMAEKGK TDELYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDQSLR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO gdtAT
 17136402.f FNLKVVKLGKGSGFKVMAEKGK SEEIYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDQSLR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO gdtAT
 24654282.f FNLKVVKLGKGSGFKVMAEKGK SEEIYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDQSLR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO gdtAT
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 24647360.f FNLKVVKLGKGSGFKVMAEKGK TAKLYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDQSLR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO ygrKT
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 31198165.a FNLKVVKLGKGSGFKVMAEKGK SSKLYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDQSLR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO ygrKT
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 17557832.r FNLKVVKLGKGSGFKVMAEKGK TQKLYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDQSLR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO ygrKT
 25146791.w FNLKVVKLGKGSGFKVMAEKGK SDKLYAIKKAKKKDVILGR SEAHYLTENRVLVLYACV HPIYCHLFCFOPT -DRLFVMEYING GDMMIHDQSLR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO ygrKT
 13928778.r SKYLYAIKKAKKKDVILGR SEAHYLTENRVLVLYACV HPIYCHLFCFOPT -DRLFVMEYING GDMMIHDQSLR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO daATM
 15100164.r PEYLKLLKKGCGFGFRVLRVKEA TGYLYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDQSLR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO dgtATM
 8392888.r EDYIKLLKKGCGFGFRVLRVKEA TGYLYAIKKAKKKDVILGR DEVESTSKRFEVANAK -mHPFLVNLSCFOPT -PEHVCFVMEYASAG GDMMIHDQSLR FDPDKSKFQCVQADYLRLR GYLYKLWVDFGAKKGCGO dgtATM

1675850.r FEGKRLGKGFVNVMILREKK-SRFIVALKILRKSQTEKE-GVEHQQLRREIEIQTAKRK-HPNIIQLNYFNDQ-QRIFTYLLILEYAPR-GELLYKELOKSGT-FDCEORTATIMEEEDALMNYCHKK-KVIHIDKIPENLNLGLL-QCEKIKIADPWSVHAP--SLR
AurB.h FEGKRLGKGFVNVMILREKK-SRFIVALKILRKSQTEKE-GVEHQQLRREIEIQTAKRK-HPNIIQLNYFNDQ-RRIIVLILLYEPR-GELLYKELOKSGT-FDCEORTATIMEEEDALMNYCHKK-KVIHIDKIPENLNLGLL-QCEKIKIADPWSVHAP--SLR
AK102360.q FEGKRLGKGFVNVMILREKK-SNHVVALVKLPSQLOQS-QVEHQQLRREIEIQTAKRK-HPNIIQLNYFNDQ-QKRVYLLILEYAVR-GELLYKDLOKCKY-FDCEORTATIMEEEDALMNYCHKK-KVIHIDKIPENLNLGLL-QCEKIKIADPWSVHAP--ENR
15233958.p FEGKRLGKGFVNVMILREKK-SHIHALVKLPSQLOQS-QVEHQQLRREIEIQTAKRK-HPNIIQLNYFNDQ-QKRVYLLILEYAVR-GELLYKDLOKCKY-FDCEORTATIMEEEDALMNYCHKK-KVIHIDKIPENLNLGLL-QCEKIKIADPWSVHAP--ENR
1525210.p FEGKRLGKGFVNVMILREKK-SHIHALVKLPSQLOQS-QVEHQQLRREIEIQTAKRK-HPNIIQLNYFNDQ-QKRVYLLILEYAVR-GELLYKDLOKCKY-FDCEORTATIMEEEDALMNYCHKK-KVIHIDKIPENLNLGLL-QCEKIKIADPWSVHAP--ENR
20862949.m FEGKRLGKGFVNVMILREKK-KFIVALKLRETDLEKA-NVEHQQLRREIEIQTAKRK-HPNIIQLRYGEHDAT-TRVYLILLYEALP-GVIVRELOKLKSF-FDCEORTATIMEEEDALMNYCHKK-KVIHIDKIPENLNLGLL-QCEKIKIADPWSVHAP--SSR
23463275.r FEGKRLGKGFVNVMILREKK-SKFIVALKLRETDLEKA-GVEHQQLRREIEIQTAKRK-HPNIIQLRYGEHDAT-TRVYLILLYEALP-GVIVRELOKLKSF-FDCEORTATIMEEEDALMNYCHKK-KVIHIDKIPENLNLGLL-QCEKIKIADPWSVHAP--SSR
AurA.h FEGKRLGKGFVNVMILREKK-SKFIVALKLRETDLEKA-GVEHQQLRREIEIQTAKRK-HPNIIQLRYGEHDAT-TRVYLILLYEALP-GVIVRELOKLKSF-FDCEORTATIMEEEDALMNYCHKK-KVIHIDKIPENLNLGLL-QCEKIKIADPWSVHAP--SSR
19074666.y FIVFIRVG-ER-IGGYLGLRVMMKKKTVYDVG-EQN-MMHEHYEYRSRIR-HPNIIQLNTGCFDY-ELPFLNTESEON-YLKLKLNINSEG-RPSAKVSRFYAEIILIAQIHLHKG-LYVGLSPNMIMGDD-GHILKLYKDFNLRDCVGG
175658523.w FMFLSOMGECAYSOVEREVVA-TDAMPFAVKLPSQLOQS-QKMDAIIREKNNILYLSqegghFVFTQLYTFEDQ-ARYIVLIVLIVEN-CDLGESLCHFGS-FDMLTISKFFSEITLQLOFLFHON-KIVHRDKMPDNVLIQKD-GHILITDPSAGAFgggqeeneentRR
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15685821.q FEGKRLGKGFVNVMILREKK-CNVALKIMDKGKHTKGN-KISVYKMERIVDQDO-HPGVQVLFETFC-TYSLYMALSBCG-CELDPCDQIVRKKG-RLSDEDEARFYAEIIVDLELYHCLG-LYHLDVDPKPNLNLTSDFGHIKIADPSCGSVTPKdglqvpeentRR
AK073712.q FEGKRLGKGFVNVMILREKK-NGTVALKIMDKGKHTKGN-NKTAVXKLERVILVLDOLE-HPGVQVLFETFC-TQSLYMALESCBG-CELDPCDQIVRKKG-LSDEDEARFYAEIIVDLELYHCLG-LYHLDVDPKPNLNLTSDFGHIKIADPSCGSVTPKdglqvpeentRR
30681369.p FEGKRLGKGFVNVMILREKK-TGTVALKIMDKGKHTKGN-NKTAVXKLERVILVLDOLE-HPGVQVLFETFC-TQSLYMALESCBG-CELDPCDQIVRKKG-LSDEDEARFYAEIIVDLELYHCLG-LYHLDVDPKPNLNLTSDFGHIKIADPSCGSVTPKdglqvpeentRR
18414583.p FEGKRLGKGFVNVMILREKK-TGTVALKIMDKGKHTKGN-NKTAVXKLERVILVLDOLE-HPGVQVLFETFC-TQSLYMALESCBG-CELDPCDQIVRKKG-LSDEDEARFYAEIIVDLELYHCLG-LYHLDVDPKPNLNLTSDFGHIKIADPSCGSVTPKdglqvpeentRR
17555466.w YFVEKVEQGESSSTVHLPKREpKnDENPEVALKICLPLRJLKN-KMNPVYIHRKEADALISrenanPGIVTLYNIFQD-SESYLFVILEYAK-YGDLCTQKQPDSDMILITDPSAGAFgggqeeneentRR
AK101032.q FEGKRLGKGFVNVMILREKK-CNVALKIMDKGKHTKGN-KISVYKMERIVDQDO-HPGVQVLFETFC-TQSLYMALESCBG-CELDPCDQIVRKKG-RLSDEDEARFYAEIIVDLELYHCLG-LYHLDVDPKPNLNLTSDFGHIKIADPSCGSVTPKdglqvpeentRR
24654496.f FEGKRLGKGFVNVMILLAVIDH-SRREYAIKVCEPRLREK-RKQDYVIREKREVHMQM-RLYVGMYARK-CMMLPYINRUVGS-FDVAICRHYAELLACERHMRR-NVVRDKLPENNLDED
24654500.f FEGKRLGKGFVNVMILLAVIDH-SRREYAIKVCEPRLREK-RKQDYVIREKREVHMQM-RLYVGMYARK-CMMLPYINRUVGS-FDVAICRHYAELLACERHMRR-NVVRDKLPENNLDED
24654485.f FEGKRLGKGFVNVMILLAVIDH-SRREYAIKVCEPRLREK-RKQDYVIREKREVHMQM-RLYVGMYARK-CMMLPYINRUVGS-FDVAICRHYAELLACERHMRR-NVVRDKLPENNLDED
24654489.f FEGKRLGKGFVNVMILLAVIDH-SRREYAIKVCEPRLREK-RKQDYVIREKREVHMQM-RLYVGMYARK-CMMLPYINRUVGS-FDVAICRHYAELLACERHMRR-NVVRDKLPENNLDED
31242445.f FEGKRLGKGFVNVMILLAVIDH-T-KKAYVCEPRLREK-RKQDYVIREKREVHMQM-RLYVGMYARK-CMMLPYINRUVGS-FDVAICRHYAELLACERHMRR-NVVRDKLPENNLDED
19113086.y YVFGDIIQGCGSKVRAIDKSK-WKEYAIKVLDKMYLVKG-KVVKVNVIERDSMRING-FEGFICRLEYTFDD-LRKYVLEBLA-N-CELLYQIKKYS-FDLDENCRVYFAEIELLALEMDHM-AIHLRDKIPENNLLEDR
19075942.y FEGKRLGKGFVNVMILTALENST-KREYAIKVLDKMYLVKG-KEKVVNIDEAKCILKHL-HPGCIFKLFYTFCDA-HNLVBLSLARN-CELLYQIKKYS-FDLDENCRVYFAEIELLALEMDHM-AIHLRDKIPENNLLEDR
PKh2.y FEGKRLGKGFVNVMILTALENST-KREYAIKVLDKMYLVKG-KVVKVNVIERDSMRING-FEGFICRLEYTFDD-LRKYVLEBLA-N-CELLYQIKKYS-FDLDENCRVYFAEIELLALEMDHM-AIHLRDKIPENNLLEDR
PKh1.y FEGKRLGKGFVNVMILTALENST-KREYAIKVLDKMYLVKG-KVVKVNVIERDSMRING-FEGFICRLEYTFDD-LRKYVLEBLA-N-CELLYQIKKYS-FDLDENCRVYFAEIELLALEMDHM-AIHLRDKIPENNLLEDR
Ydr466w.y FIFKGEIIGLGCSSVTEKALDKEP-NKIIYAHVCSKCKHIIKEA-KVVKVNVIERDSMRING-FEGFICRLEYTFDD-LRKYVLEBLA-N-CELLYQIKKYS-FDLDENCRVYFAEIELLALEMDHM-AIHLRDKIPENNLLEDR
13592023.r FEGKRLGKGFVNVMILTALENST-TREYAIKVLDKMYLVKG-KVVKVNVIERDSMRING-FEGFICRLEYTFDD-LRKYVLEBLA-N-CELLYQIKKYS-FDLDENCRVYFAEIELLALEMDHM-AIHLRDKIPENNLLEDR
6755020.m FEGKRLGKGFVNVMILTALENST-SREYAIKVLDKMYLVKG-KVVKVNVIERDSMRING-FEGFICRLEYTFDD-LRKYVLEBLA-N-CELLYQIKKYS-FDLDENCRVYFAEIELLALEMDHM-AIHLRDKIPENNLLEDR
PDK1.h FEGKRLGKGFVNVMILTALENST-TREYAIKVLDKMYLVKG-KVVKVNVIERDSMRING-FEGFICRLEYTFDD-LRKYVLEBLA-N-CELLYQIKKYS-FDLDENCRVYFAEIELLALEMDHM-AIHLRDKIPENNLLEDR
2186.t19.q YALLNLLGCGSKFSEVVKAFDLVYK-YVAKVLDKNAQWSERFKQS-YIRAHREYNIHKTIVL-HNIVELDIDFIDH-NHNFCDVLFYCVG-C-KLDLAVKPLATPI-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
31204337.a YALLNLLGCGSKFSEVVKAFDLVYK-EQRYVACKVHQLNKDWKEDK-KANYIKHAIAREYNIHKTIVL-HPRVVKLQDVPEIDA-NSFCVLYECDG-NLDLDFYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
17552082.w YALLNLLGCGSKFSEVVKAFDLVYK-ENRYVACKVHQLNKDWKEDK-KANYIKHAIAREYNIHKTIVL-HCRIVKQDLLTID-NHSFCVLYECDG-NLDLDFYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
325654583.w YALLNLLGCGSKFSEVVKAFDLVYK-ENRYVACKVHQLNKDWKEDK-KANYIKHAIAREYNIHKTIVL-HCRIVKQDLLTID-NHSFCVLYECDG-NLDLDFYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
6755805.m YALLNLLGCGSKFSEVVKAFDLVYK-QRYVAVKHLQHNLKNWREDE-KKENYHKHACREYRHKEDD-HPRVVKLQDYSLD-TDSFCVLYECDG-NLDLDFYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
25025431.m YALLNLLGCGSKFSEVVKAFDLVYK-QRYVAVKHLQHNLKNWREDE-KKENYHKHACREYRHKEDD-HPRVVKLQDYSLD-TDSFCVLYECDG-NLDLDFYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
TLK2.h YALLNLLGCGSKFSEVVKAFDLVYK-EQRYVAVKHLQHNLKNWREDE-KKENYHKHACREYRHKEDD-HPRVVKLQDYSLD-TDSFCVLYECDG-NLDLDFYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
27369956.m YALLNLLGCGSKFSEVVKAFDLVYK-QRYVAVKHLQHNLKNWREDE-KKENYHKHACREYRHKEDD-HPRVVKLQDYSLD-TDSFCVLYECDG-NLDLDFYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
TLK1.h YALLNLLGCGSKFSEVVKAFDLVYK-EQRYVACKVHQLNKDWKEDK-KANYIKHAIAREYNIHKTIVL-HPRVVKLQDYSLD-TDSFCVLYECDG-NLDLDFYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
8360.t66.q FKESQKLGCGKFKVNTMGMFLKS-KMMPVAKRTRSHESRQGM-KEFVAEVSSGRER-HRNVVOLLDYCR-KGEIILWLYDMPM-GSLQKLYDMDQKPT-TLEWARRLQIKKGVASLIVYHLD-EWVHRDKIAVNVLDE
8359.t89.q FASENLVCGCSFSVKTGIMMSNEE-EVVAIVAKVLNLQQRGAS-QSFVAECETRRCAR-HRNLVKGITLVCSSSLDKEAIVFEDFL-N-CHNLQWHEPREGHN-QTGLSLIQLRInIAIDASALEYHLDQYRDEPEVCDKEPNNLND
8351.t75.q FSTTNLLGCGCSFSVKGCKMLN-QDHWAVKVLKD-KEFVAKLQDTSFGLA-KSFTAAECAEAMNLR-HRNLVKGITVCCSSMINDFKAIVFEDFL-N-CHLBewLHPQIDNQLEER-HLNLWHRVTRTIDFVACALDYLHFRgppCVDKSSNVLDAD
8358.t84.q FAPTNLLGCGCSFSVKGCKMLN-QDHWAVKVLKD-KEFVAKLQDTSFGLA-KSFTAAECAEAMNLR-HRNLVKGITVCCSSMINDFKAIVFEDFL-PGLDWEPIPTNDpadR-HLNLWHRVTRTIDFVACALDYLHFRgppCVDKSSNVLDAD
8352.t20.q FSIVNLLGCGSKVIIKAFDLVYK-TDVLWAVKVLHLDDEG-AHNSFFRECEVYKTCR-HRNLVKGITLVCSTVNEFPEMFN-CHNLEMFQVPLKLYQSPKR-VLTGQORISIAADASALDHLNQVLYLHEDLKPENNLIDY-MTSR1DPSAKFALSe-
AK102130.q YVHVILVCGCSFSVKGCKMLN-QDHWAVKVLKD-ROTVAKMELIOLHGKTFDD-IHLNRQEIIEIHLRKL-HENIMIQLDLSFPEPQFQCVTEPAFQG-BLFPEVLEDDKC-HENIMRDKPONILLGKQG-SVVKLQDFEPFARAMSe
28269679.m YVHVLEMICGCSFSVKGCKMLN-SQAVWALPKEIHLRKLSE-ELRNRLQEIIEIHLRKL-HENIMIQLDLSFPEPQFQCVTEPAFQG-BLFPEVLEDDKC-HENIMRDKPONILLGKQG-SVVKLQDFEPFARAMSe
Fused.h YVHVLEMICGCSFSVKGCKMLN-SQAVWALPKEIHLRKLSE-ELRNRLQEIIEIHLRKL-HENIMIQLDLSFPEPQFQCVTEPAFQG-BLFPEVLEDDKC-HENIMRDKPONILLGKQG-SVVKLQDFEPFARAMSe
ULK4.h FIVYVAKLQGCKVTFWVKGCKMLN-TINFVAIICLTKCRPELT-NWWRVAKLQHNLKNWREDE-TPEHNEYETSLNHLW-VENLPEDWVREPE-EDLISGQIHLNKL-S-
25051442.m FIVYVAKLQGCKVTFWVKGCKMLN-TINFVAIICLTKCRPELT-NWWRVAKLQHNLKNWREDE-TPEHNEYETSLNHLW-VENLPEDWVREPE-EDLISGQIHLNKL-S-GIECLCDPSRKLLEBGPGLKPS-NECLAYEVGELNFEFFALV-A-
ULK3.h FIVYVAKLQGCKVTFWVKGCKMLN-TREVVAIICLTKCRPELT-VENLLTIEIHLRKL-HPRVVKLQDYNFQWDN-DNYLIMLMEFCAG-CELDRLFPIHTRI-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
27564910.w YSKRDLGKGFVNVMILREKK-SRFIVALKILRKSQTEKE-KNLLKEIQLKELSS-1kHKNVNLGLLKECIEPT-TFVYLVLMFECG-CELDRLYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
31200805.a YNSKEIIIGLGSFVAKWVKGCKMLN-AHYVPAVKEIHLKSKS-QSLGKEIQLKELSS-1kHKNVNLGLLKECIEPT-QNVLVLMFECG-CELDRLYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
24663470.v YSSKDLGKGFVNVMILREKK-SHMPPVAKWVKGCKMLN-KEMPVAEICLTKRQGKOL-CEVYVAKLQDTSFGLA-QNLLKEIQLKELSS-1kHKNVNLGLLKECIEPT-QNVLVLMFECG-CELDRLYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
27672185.r YSKRDLGKGFVNVMILREKK-SHMPPVAKWVKGCKMLN-TDWEVAIKLQHNLKNWREDE-QILLKEIQLKELSS-1kHKNVNLGLLKECIEPT-HENIVALYD-
31982530.m YCKRDLGKGFVNVMILREKK-SHMPPVAKWVKGCKMLN-TDWEVAIKLQHNLKNWREDE-QILLKEIQLKELSS-1kHKNVNLGLLKECIEPT-HENIVALYD-
ULK2.h YSKRDLGKGFVNVMILREKK-SHMPPVAKWVKGCKMLN-TDWEVAIKLQHNLKNWREDE-QILLKEIQLKELSS-1kHKNVNLGLLKECIEPT-HENIVALYD-
6678503.m FSRKDLGKGFVNVMILREKK-HDLEAVVNCINKNPKAS-VENLLTIEIHLRKL-HENIVALYDFOE-M-ANSLVLMFECG-CELDRLYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
ULK1.h FSRKDLGKGFVNVMILREKK-HDLEAVVNCINKNPKAS-VENLLTIEIHLRKL-HENIVALYDFOE-M-ANSLVLMFECG-CELDRLYQKQHKT-LPEKEARHLLVQFQIQLVLYNKRtg-LYHLDVCPNVLDE
21358073.f YVQHLLGCGSKFATVYKPCCL-HTHDVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HESVPLQVYFQFDA-NVYVLLVBLA-N-CELHRYLHNIHAR-PTEHNEYETSLNHLW-
27690452.r FVKGVLGCGSKFAGVYRAESIH-TLEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HGMVVRQVNEVIRHQQDN-
27501454.m FVKGVLGCGSKFAGVYRAESIH-TDWEVAIKLQHNLKNWREDE-HENIVLQFEDY-
27501466.m FVKGVLGCGSKFAGVYRAESIH-TDWEVAIKLQHNLKNWREDE-HENIVLQFEDY-
PLK4.h FVGNLNGCGSKFAGVYRAESIH-TLEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HPSIQLNNSFEDS-NVYVLLVBLA-N-CHNLMLYFQVHQLPQH-
19075073.y YTMRYDCIGCGCFACRVRKDN-YQNIYAKVIIKAKRSLQNDK-TKLKLEGEIHLRKL-HENIVLQFEDY-
9114559.y YHRGHPLGCGSCFCRCPQIHD-SEEIFAIVKIVIYASIKSEK-TRKKLSEIQLHKSMS-HENIVLQFEDY-
23956070.m YTGRGRLLGCGPKFCYEAIEAD-TE-SCIAYAVKIVIYASIKSEK-HOREKILNEIHLRKL-HENIVLQFEDY-
PLK3.h YLKGRLLGCGPKFCYEAIEAD-TSSAYAVKIVIYASIKSEK-HOREKILNEIHLRKL-HENIVLQFEDY-
13929172.r YCRGVKLGCGPKFCYEAIEAD-NKVYAAKIIIPHSRVAK-HOREKIDKEIHLRKL-HKGVYQFVYFEDPK-
22779889.m YCRGVKLGCGPKFCYEAIEAD-NKVYAAKIIIPHSRVAK-HOREKIDKEIHLRKL-HKGVYQFVYFEDPK-
PLK2.h YCRGVKLGCGPKFCYEAIEAD-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HESVPLQVYFQFDA-
25144846.w YEGKRLGCGSKFAGVYELTNRV-TREVVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
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17510519.y YEGKRLGCGSKFAGVYELTNRV-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
31208377.a YRMRPFFGCGSKFAGVYELTNRV-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
25742783.r YRMRPFFGCGSKFAGVYELTNRV-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
31981564.m YRMRPFFGCGSKFAGVYELTNRV-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
PLK1.h YRMRPFFGCGSKFAGVYELTNRV-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
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PLK2.h YCRGVKLGCGPKFCYEAIEAD-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HESVPLQVYFQFDA-
25144846.w YEGKRLGCGSKFAGVYELTNRV-TREVVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
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22779889.m YCRGVKLGCGPKFCYEAIEAD-NKVYAAKIIIPHSRVAK-HOREKIDKEIHLRKL-HKGVYQFVYFEDPK-
PLK2.h YCRGVKLGCGPKFCYEAIEAD-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HESVPLQVYFQFDA-
25144846.w YEGKRLGCGSKFAGVYELTNRV-TREVVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
25144850.w YEGKRLGCGSKFAGVYELTNRV-TREVVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
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31208377.a YRMRPFFGCGSKFAGVYELTNRV-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
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22779889.m YCRGVKLGCGPKFCYEAIEAD-NKVYAAKIIIPHSRVAK-HOREKIDKEIHLRKL-HKGVYQFVYFEDPK-
PLK2.h YCRGVKLGCGPKFCYEAIEAD-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HESVPLQVYFQFDA-
25144846.w YEGKRLGCGSKFAGVYELTNRV-TREVVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
25144850.w YEGKRLGCGSKFAGVYELTNRV-TREVVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
17510519.y YEGKRLGCGSKFAGVYELTNRV-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
31208377.a YRMRPFFGCGSKFAGVYELTNRV-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
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31981564.m YRMRPFFGCGSKFAGVYELTNRV-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-
PLK1.h YRMRPFFGCGSKFAGVYELTNRV-TDWEVAIKLQDHLQGTGLTNRVQEVIEIHLRKL-HYRDKVNDTIEIHLRKL-HENIVLQFEDY-

	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
19075783.y	NSVVGSPPEVYMAPPEVYVGK	KYDFTDVYSLCMLMEESVGVYPSSGST	LOPFTWINTNLYWR	EMLQRPSKNEGYIKKKARVSDEASFTIKCQHTE	PTSFQ	STIEIIOKGPPF													
19113760.y	NSVVGSPPEVYMAPPEVLRGE	NYGNSWDYSLCMLMEESVGVYPSSGST	VNETSNDLNKNWR	KCFQRPHYDDEDRLEFNWRDDANDEVCHCTD	SLKQWMPYF														
Dbf20.y	NSMVGSPPEVYMAPPEVLECK	KYDFTDVYSLCMLMEESVGVYPSSGST	TNEYDNLRRWK	KTLRPRTRDRAAFSDRTWDLTTRLJAD	PDKRIG														
Dbf2.y	NSMVGSPPEVYMAPPEVLECK	KYDFTDVYSLCMLMEESVGVYPSSGST	TNEYDNLRRWK	PINRVR	SFEVVKRMISYF														
19112278.y	KDIQGTPEVYMAPPEVLMG	VDTQMDHTAMCCVIFEMUTGCRPHEANT	VKAATVARDERND	QTLRPRPROSDGRAAFSDRTWDLTTRLJAD	PINRVR	SFEVVKRMISYF													
19075810.y	KRFIGTPEVYMAPPEVILGN	PGKIAEDWVSLCMLMEESVGVYPSSGST	PDQFQNDLARR	IGWTKRVRKESCSKEAVDLITKLMDPD	CNKRLG	SNYQEPKKEPPF													
14318486.y	KKFFGTPEVYMAPPEVIECKG	EDNQCDDWSVCGCILFELLGCVPPHEAET	PDAVEKHNLLGV	INWAEVFTAESSVALIDEADRIPCMN	PANRLCANG	VEELKAHFF													
24648052.f	ERIGTPEVYMAPPEVLLK	QGHGPADVWVWALVCVNFMTGCPPNDET	PQKFDNLLNKN	IOWPEFKNEEEERFLTEAKDLBEKLJLWVD	PAKRIGAKG	IQEIKDHEYKF													
15241795.p	HAVVGTPEVYMAPPEVLLG	MGHKXTADWSVGVILPEVIVNGCIPPNAET	PQKFDNLLNRD	IENPEGDEALSVeSMEAVERLLTM	DNPBRE	AAKEVQMRHF													
15219539.p	RSAVGTPDVYMAPPEVLLG	TEHGYADWMSAEGVCPPEVLLGCVPPHEAET	PERKFDNLLNKN	IPWPNVPEEISYeaADLINKLITE	NPVORLGA	-T-													
18402213.p	RSAVGTPDVYMAPPEVLLG	TGHGATADWSVGVILPEVIVNGCIPPNAET	PQKFDNLLNKN	FWPDPVGELEMSEACDLNRLJWVH	EPERLIGA	-N-													
30684702.p	RSAVGTPDVYMAPPEVLLG	TGHGATADWSVGVILPEVIVNGCIPPNAET	PQKFDNLLNKN	IQPWPVPEDMSHeARDLIDRJLITE	DPHORLGA	-R-													
AK106515.t	RSAVGTPDVYMAPPEVLLGT	GHTISDADWSVGVILPEVIVNGCIPPNAET	PQKFDNLLNKN	IPWPHVPEEMSAsaADLIDRJLITE	DPHORLGA	-R-													
19075145.y	SITVGTPEVYSPDVLCVNEE	CEYGBEDVFTLGLVIVIEMYGGTPEVSDT	LMEYRHLITRVE	DPRMR	IEEKHSFAFF														
20841360.p	KLPIGTPEVYMAPPEVLTWme	drrGTYGLDDCDWWSVGVIVAEWVGGTPEVSDT	SARFNNIMMqRPL	KFEDDDKVSSeLLDILQSHLC	VOKERLGA	KFEGICCPFPF													
CRK1.h	KLPIGTPEVYMAPPEVLTWme	GTYGLDDCDWWSVGVIVAEWVGGTPEVSDT	SARFNNIMMqRPL	QRFLKFPEDDVKSSeLLDILQSHLC	GOKERLKF	EUCCKCPFPF													
24663340.f	ISPVGTPEVYTAPEVLTWme	klskSMFSDCYSMCICLIELCETTPHEDN	VHEYSKILSHCeess	HLKLISFADLKVSVnTIEBLVH	PSKRL	SYERIKNPFPF													
14192945.r	LVAVGTPEVYISPELQAVgg	gpgagSY-GPECDDWALCVFAEMPYGGTPEVADS	TAEYAYAKIVHYREHLS	LPLADTVVeeADLIRGLC	PAEIRLGR	CGAGDQKOPPF													
27676600.r	LVAVGTPEVYISPELQAVgg	gpgagSY-GPECDDWALCVFAEMPYGGTPEVADS	ETAYAKIVHYREHLS	LPRAdmgVPBeAADLIRGLC	AERIRLGR	RGCAGDQKOPPF													
DMPK1.h	LVAVGTPEVYISPELQAVGGPGT	GSY-GPECDDWALCVFAEMPYGGTPEVADS	TAEYAYAKIVHYREHLS	EHLSLPLVDEGVPEEARDFIQRLC	PPETRLGRG	AGGDRRHF													
27661270.r	SVAVGTPEVYISPELQAVgg	gpgagSY-GPECDDWALCVFAEMPYGGTPEVADS	ETYGRKMNEDILQ	PPSDVDDVPeADLIRQLC	QEBRLG	RGCDDDRPF													
DMPK2.h	SVAVGTPEVYISPELQAVgg	gpgagSY-GPECDDWALCVFAEMPYGGTPEVADS	ETYGRKMNEDILQ	DHLPDTPDVPeADLIRQLC	ROERLIG	RCDDDRPF													
24762562.f	NVAVGTPEVYISPELQAVgg	dgkGRY-GPECDDWALCVFAEMPYGGTPEVADS	LVEYGRIMHQNCF	FPTqvTDVSeADLIRRLICS	REHRLG	EDDPRNPF													
31240045.p	NVAVGTPEVYISPELQAVgg	dgkGRY-GPECDDWALCVFAEMPYGGTPEVADS	LVEYGRIMHQNCF	N-LPSQETLNgkvSetSqdLICKICL	PENRLG	QNEDQDMOPPF													
25145908.w	NVAVGTPEVYISPELQAVgg	dgrGRY-GPECDDWALCVFAEMPYGGTPEVADS	LVDYGRIMHQNCF	-SFDDNDIIndefgSVSeAKDlIRRLIC	ABEYRLG	QNEDDCKAPPF													
MRCKb.h	SVAVGTPEVYISPELQAMEDGM	GRY-GPECDDWALCVFAEMPYGGTPEVADS	LVEYGRIMHQNCF	DMLDPFDdeidwVVSeAKDlIRRLIC	SSDVL	RNLDSDQHPPF													
MRCKa.h	SVAVGTPEVYISPELQAMEDGM	GRY-GPECDDWALCVFAEMPYGGTPEVADS	LVEYGRIMHQNCF	ERFQPSHVTDVSeAKDlIRRLIC	SRERLIG	IEDEKKHFF													
16758474.r	SVAVGTPEVYISPELQAVgg	dgkGRY-GPECDDWALCVFAEMPYGGTPEVADS	ETYGRKMNEDILQ	ERFQPAQVTDSeAKDlIRRLIC	SREHRLG	IEDEKKHFF													
16758420.r	SVAVGTPEVYISPELQAVgg	dg-mgkGRY-GPECDDWALCVFAEMPYGGTPEVADS	ETYGRKMNEDILQ	FPTqvTDVSeADLIRRLICS	REHRLG	QNEDEKKHFF													
6677759.m	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	FPSHvtDVSeADLIRRLICS	RERRLG	QNEDEKKHFF													
6677761.m	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	TFFDDNDISKeAKDlIRRLIC	DREVRLGRN	QEVEIKRHF													
ROCK2.h	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	CFEDTEISKHAKNLICAF	DREVRLGRN	QEVEIKRHF													
ROCK1.h	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	HKNSLFCPDEADAIKHAKNLICA	FLTDLTREVRLGRN	QEVEIKRHF													
6981478.r	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	HKNSLFCPDEADAIKHAKNLICA	FLTDLTREVRLGRN	QEVEIKRHF													
13592049.r	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	FLTDLTREVRLGRN	QEVEIKRHF														
6677759.m	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	PPEDTEISKHAKNLICAF	REHRLG	QEVEIKRHF													
6677761.m	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	PPEDTEISKHAKNLICAF	REHRLG	QEVEIKRHF													
ROCK2.h	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	HKNSLFCPDEADAIKHAKNLICA	FLTDLTREVRLGRN	QEVEIKRHF													
ROCK1.h	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	HKNSLFCPDEADAIKHAKNLICA	FLTDLTREVRLGRN	QEVEIKRHF													
13592049.r	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	FLTDLTREVRLGRN	QEVEIKRHF														
13592049.r	DTAVGTPEVYISPEVLSKgg	gdGYY-GRECDWWSVGVIVEMYGGTPEVADS	LVGYSKIMHKNSL	PPEDTEISKHAKNLICAF	REHRLG	QEVEIKRHF													
31203491.a	SNAVGTPEVYISPEVLSQgg	vkGGY-GPECDDWALCVFAEMYGGTPEVADS	LVGYSKIMHKNSL	TFEDPNDRARSeAKDlIRRLIC	DRDVRLG	RHVEEIKSPPF													
24642569.f	SNAVGTPEVYISPEVLSQgg	vdNEY-GPECDDWALCVFAEMYGGTPEVADS	LVGYSKIMHKNSL	NSLSFPPEVEISEqAKAIFRAFLTD	RTRORL	RYCIEDDKHFF													
17508247.W	STAVGTPEVYISPEVLRNgg	qdAEFCKEVDTWVSVGVIVEMYGGTPEVADS	LVSTVYITNWR	TSLKPFDPDPLISTAKDlIRRLIC	AAPDRLG	RNSVDDPDRNKF													
18416116.g	YSTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVSDD	PRITCRKIIINWR	TCIKLFPDDEAKLTSKIDLICKL	DVDSRLG	RVVEEIKSPPF													
2742.t06.Q	ESTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVSDD	PITTCKRIVWNRNHLK	FPEEKSPEARDLICKL	DVDRHRG	SADQIKAPPF													
9558485.q	ESTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVSDD	PITTCKRIVWNRNHLK	FPEEKSPEARDLICKL	DVDRHRG	SADQIKAPPF													
15234064.p	ESTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVSDD	PITTCKRIVWNRNHLK	FPEEKSPEARDLICKL	DVDRHRG	SADQIKAPPF													
18399030.p	YSTVGTPEVYISPEVLLK	KGY-GVECDWWSLCIMYEMIVGVCPPEVSDD	PITVTCRIVWWR	THLVFBEGARLTPeADLICKL	DSEHRLG	HGAEOIKAPPF													
15221465.p	ESTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVYSEE	PLATCKRIVWWR	TCIKLFPDDEAKLTSKIDLICKL	NVEORL	K-CVEBEIKAPPF													
16418172.Q	YSTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVYSEE	PMTCRIVNWRTHL	FPEEAKLTPDIDTSKIDLICKL	NVEORL	K-CVEBEIKAPPF													
22331218.Q	YSTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVYSEE	PMTCRIVNWRTHL	NYLKFDEVRLSPeAKDlICKL	NVEORL	K-CANEIKAPPF													
30682811.p	YSTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVYSEE	PMTCRIVNWRTHL	NYLKFDEVRLSPeAKDlICKL	NVEORL	K-CANEIKAPPF													
30682806.p	YSTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVYSEE	PMTCRIVNWRTHL	NYLKFDEVRLSPeAKDlICKL	NVEORL	K-CANEIKAPPF													
15225358.p	YSTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVYSEE	PMTCRIVNWRTHL	SHIKFEEAIALSeADLICKL	SVRRRLG	K-CANEIKAPPF													
15219591.p	YSTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVYSEE	PMTCRIVNWRTHL	THLKFPDDEAKLTSKIDLICKL	FPEEAKLSPeAKDlTSKIDLICKL	T-CAEOKAPPF													
5596.t09.Q	YSTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVYSEE	PMTCRIVNWRSHL	THLKFPDDEAKLTSKIDLICKL	NADRLG	TKCAEOKAPPF													
AK101120.Q	YSTVGTPEVYISPEVLLK	KGY-GMECDWWSLCIMYEMIVGVCPPEVYSEE	PMTCRIVNWRSHL	THLKFPDDEAKLTSKIDLICKL	NVEORL	TKCAEOKAPPF													
32566202.p	YSTVGTPEVYISPEVFWQ	NOYTKSCDDWVSLCIMYEMIVGVCPPEVYSEE	QTYLIFPPSDVPSIATKIKRFFC	EAERRLG	NHGCLDEIKCOPPF														
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31213155.a	YSTVGTPEVYISPEVFWQ	-TGY-GFACDDWALCVFAEMYGGTPEVADS	PQDTYRVMNWR	ETLIFPPPEipISEeAKDlIINFCCE	ADRRLG	SQRCEDIKSPVFF													
19527344.p	ESTVGTPEVYISPEVFWQ	TGY-NKLCDDWALCVFAEMYGGTPEVADS	PQDTYRVMNWR	TIFFPEVPSVSeADLICKL	EWEHRLG	CVEEIKNMF													
NDR1.h	ESTVGTPEVYISPEVFWQ	TGY-NKLCDDWALCVFAEMYGGTPEVADS	PQDTYRVMNWR	KETLTFPPVPISeAKDlIILRFLC	EWEHRLG	CVEEIKNSFF													
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27370078.m	ESTVGTPEVYISPEVFWQ	TGY-NKLCDDWALCVFAEMYGGTPEVADS	PQDTYRVMNWR	DSENRLG	CVEEIKNSFF														
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19114077.Y	YSTVGTPEVYISPEVFLQQ	GY-QDQDCDDWALCVFAEMYGGTPEVADS	PQDTYRVMNWR	ETLIFPPNDIHLSeIARDLICKL	SEHRLG	RCCAEOKAPPF													
Cbk1.y	YSTVGTPEVYISPEVFLQQ	GY-QDQDCDDWALCVFAEMYGGTPEVADS	PQDTYRVMNWR	ETLIFPPNDIHLSeIARDLICKL	SEHRLG	RCCAEOKAPPF													
31208821.p	HSIVGTPEVYISPEVFLR	SGY-TQLCDDWVSVGVIVEMYGGTPEVFLQ	AEEQIKRIVINWRQ	QTLOFPPDDHISYEAIDLICKL	ADORLG	R-NDEVNLKPF													
24651507.f	HSIVGTPEVYISPEVFLR	SGY-TQLCDDWVSVGVIVEMYGGTPEVFLQ	AEEQIKRIVINWRQ	TIRIPFDVDAHLTPeADLICKL	NDEIRLG	R-NDEVNLKPF													
7657295.m	HSIVGTPEVYISPEVFLR	SGY-TQLCDDWVSVGVIVEMYGGTPEVFLQ	AEEQIKRIVINWRQ	KTLHPQPAELSeADLICKL	ADKRLG	KSVDEVKSPPF													
LATS2.h	HSIVGTPEVYISPEVFLR	SGY-TQLCDDWVSVGVIVEMYGGTPEVFLQ	AEEQIKRIVINWRQ	HIPTQVRLSAeARDLICKL	AADCRLG	DADDIKAPPF													
27730757.R	HSIVGTPEVYISPEVFLR	SGY-TQLCDDWVSVGVIVEMYGGTPEVFLQ	AEEQIKRIVINWRQ	ENTLHIBAQVQLSPeARDLICKL	SADRLG	GADDIKAPPF													
27700468.R	HSIVGTPEVYISPEVFLR	SGY-TQLCDDWVSVGVIVEMYGGTPEVFLQ	AEEQIKRIVINWRQ	ENTLHIBAQVQLSPeARDLICKL	SADRLG	GADDIKAPPF													
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17509105.W	HSIVGTPEVYISPEVFLR	SGY-TQLCDDWVSVGVIVEMYGGTPEVFLQ	AEEQIKRIVINWRQ	QTSLHPPQAKLSPeARDLICKL	PEDRLG	KNCADEIKAPPF													
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30697012.p	NSFVGTPEVYISPEVFTG	AGHTSAIDWVSLCIMYEMIVATTPGKGN	TNEFTNLLKNE	SSIPVPSLaKO	DPSNRIG	SNAANDIKAPPF													
				LTFPSIIPVSLvGRQLINTLNR	SKGGANEIKAPPF														

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 25052537.m YSCFCCTCPEYMAPDTIVRQg-dSGH-DKADWWSVCLVLYMELLTCASPPTVDE-KNSQAESRRIKSE-PPXPVQEMSTVADLIDLORLJKM-DPKRLGCG-GPRDAEEIKKPF
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 17567363.w QWFCCTCPEYNSPEVHLE-KKY-GTSDTAKKIMKK-ERNTQAEVSRLIKCS-DKEDTQK-
 17569233.w LTFCTCPEYMAPEMIRK-VGHADWVIALCLLMMDMFMGGPPTGET-PADKDSILKGK-
 17567137.KGRVGTGVMAPAEVTKN-ERY-YGVDWWSVCLLLEMIECKAPRQRKARKE-KVKEE-VERVVRDQE-KYSEKFSEARTCGRQHLK-
 31208057.A KGRVGTGVMAPAEVTKN-ERY-TFSDWWSVCLLLEMIECKAPRQRKARKE-KVKEE-VERVVRDQE-KYSEKFSEDDAKSICQOOLVKV-AVKSRIGCRNGAREVKAIPPF
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 6755326.m KGYAGTCGFMAPAEVLLRQ-EEY-DESVDYFALVTLVEMIA-ARGFPRARG-KVENKEKQIISEP-
 RHOK.h KGYAGTCGFMAPAEVLLQ-EEY-DESVDYFALVTLVEMIA-ARGFPRARG-KVENKEKQIISEP-
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 32564603.w HASVGTHGMAPAEVLAk-gVAY-DSADWWSLCLMCLYKLGKHS-PGRQHK-KDKNEIDKMTLQD-IELPNBgLSkdCRDLECHLKR-DVDPDRC-
 31240177.a HASVGTHGMAPAEVLSK-gTPPSD-SFSP-CMMLYKLGKHS-PGRQHK-KDKNEIDKMTLQD-ELPESFSKeLRDLECHLKR-DIDKRLG-
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 BARK1.h HASVGTHGMAPAEVOK-VAY-DSADWWSLCLMCLYKLGKHS-PGRQHK-TDKNEIDKMTLQD-
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 19075510.y NTFCTCPEYLAPELLQ-HGYVWDWWSVCLLLEMITCKPPGVYDEN-LRPFDNIDEAKDLSKQH-
 Ypk1.y DFCCTCPEYLAPELLQ-LGY-NKADWWSVCLLLEMITCKPPGVYDEN-VPE-
 Ypk2.y DFCCTCPEYLAPELLQ-QGY-
 19115752.y RTFCTCPEYLAPELLDE-AGY-DMVFSLCLVLYEMIICGNSPVAYDN-TQOYLYKIVVK-
 19114666.y RTFCTCPEYLAPELLDE-KGY-
 Sch9.y NTFCTCPEYLAPELLDE-TGY-
 17570293.w STFCCTCPEYLAPELLK-KPY-KTDWWSVCLLLEMIFGLPFPYSDK-HNE-YDQHINQ-
 27704708.R STFCCTCPEYLAPELLK-EFY-
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 MAST4.h KVQVCTCPEYIAPEVILR-QGY-
 28526907.m KVQVCTCPEYIAPEVILR-QGY-
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 25144999.WTFCTCPEYIAPEVILN-KGH-DSVLDVIAALCIFMCELLTGSPPPSTD-
 6981402.r WTCCTCPEYIAPEVILN-KGH-DSVLDVIAALCIFMCELLTGSPPPSTD-QMMTYNLILKGIEK-MDFPRK1RTfrPEDLIRRLCRQ-
 PTERLGN-LKNCINDIKKCF

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 24647360.f KTFCCTPDYIAPEILY- NDY-QSAVDPMWNLGLVLYEMMAGCOPPFSGPD- HDV1FT1ILVEE- VKFPRN1DeAKN1LAG1LAK- DPKRLG- GKKDDV1K1O1APFFF
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 31198165.a KTFCCTPDYIAPEILY- NDY-QSAVDPMWNLGLVLYEMMAGCOPPFSGPD- HDV1FT1ILVEE- KFPRN1Spn1ARS1LSC1LVLK- PGRKRLG- GGD1DAKE1M1APFFF
 25145932.w STFCCTPDYIAPEILY- NDY-QSAVDPMWNLGLVLYEMMAGCOPPFSGPD- HDV1FT1ILVEE- LRFPSKLSQeART1LTLV- DPTORLGC- GGD1DAKE1M1APFFF
 17557832.w STFCCTPDYIAPEILY- NDY-QSAVDPMWNLGLVLYEMMAGCOPPFSGPD- HDV1FT1ILVEE- LRFPSKLSQeART1LTLV- DPTORLGC- GGD1DAKE1M1APFFF
 25146791.w STFCCTPDYIAPEILY- NDY-QSAVDPMWNLGLVLYEMMAGCOPPFSGPD- HDV1FT1ILVEE- LKFPRN1LSSdAKS1LLSGL1KHD- PNRKRLG- AGPDDDAEWS1R1AFFF
 13928778.r KTFCCTPDYIAPEILY- NDY-QSAVDPMWNLGLVLYEMMAGCOPPFSGPD- HDV1FT1ILVEE- IRFPR1LGPeAKS1LLSGL1KHD- PNRKRLG- GFDDFKE1M1RS1SFFF
 15100164.r KTFCCTPDYIAPEILY- NDY-QSAVDPMWNLGLVLYEMMAGCOPPFSGPD- HDV1FT1ILVEE- IRFPR1LGPeAKS1LLSGL1KHD- PNRKRLG- GSEDAK1EM1C1RFFF

8392888.r KTF COT PEYLAP EVL ED - NDY GRAVDMGLCVVMMEMMCCRLPFSYNQD - HERIFED ILMEE - IRFPRTLGP eAKSLLAGLLKKD - PKORIGG - GFSDAKEVMEIRFF
 6680674.m KTF COT PEYLAP EVL ED - NDY GRAVDMGLCVVMMEMMCCRLPFSYNQD - HERIFED ILMEE - IRFPRTLGP eAKSLLAGLLKKD - DPKORIGG - GFSDAKEVMEIRFF
 AKT2.h KTF COT PEYLAP EVL ED - NDY GRAVDMGLCVVMMEMMCCRLPFSYNQD - HERIFED ILMEE - EIRFPRTLGP eAKSLLAGLLKKD - DPKORIGG - GFSDAKEVMEIRFF
 AKT1.h KTF COT PEYLAP EVL ED - NDY GRAVDMGLCVVMMEMMCCRLPFSYNQD - HERIFED ILMEE - EIRFPRTLGP eAKSLLAGLLKKD - DPKORIGG - GSEDAKEIMORRFF
 25071037.m KTF COT PEYLAP EVL ED - NDY GRAVDMGLCVVMMEMMCCRLPFSYNQD - HERIFED ILMEE - EIRFPRTLGP eAKSLLAGLLKKD - DPTORIGG - GSEDAKEIMORRFF
 6753034.m KTF COT PEYLAP EVL ED - NDY GRAVDMGLCVVMMEMMCCRLPFSYNQD - HERIFED ILMEE - EIRFPRTLGP eAKSLLAGLLKKD - DPTORIGG - GSEDAKEIMORRFF
 AKT3.h KTF COT PEYLAP EVL ED - NDY GRAVDMGLCVVMMEMMCCRLPFSYNQD - HERIFED ILMEE - EIRFPRTLSSDAKSLSLSGLLIK - DPNKRIGG - GFDAAKEIMRFFF
 6753032.m KTF COT PEYLAP EVL ED - NDY GRAVDMGLCVVMMEMMCCRLPFSYNQD - HERIFED ILMED - EIRFPRTLSSDAKSLSLSGLLIK - DPNKRIGG - GFDAAKEIMRFFF
 6755078.m RTF COT DYLAP EPLLAY QPY CKSVDWVAYCVLYEMIAGQPFGEDGED EDPFQSIMEHN VSYPKSLSKeAVASICKGMLTK QPAKRLGC - GPECERDVREAFF
 PKCa.h RTF COT DYLAP EPLLAY QPY CKSVDWVAYCVLYEMIAGQPFGEDGED EDPFQSIMEHN HNVSPKSLSKGSVAICKGMLTK HPAKRLGC - GPECERDVREAFF
 10946894.m RTF COT DYLAP EPLLVR TGH CKSVDWVSLCQLMYDMITGSPPTAEN RKKMDKIIIR - CLFLPPYLTDARDLAKKPFKR - NETORIGG - CLGDAADVORPPF
 p7056Kb.h RTF COT DYLAP EPLLVR SGH CRNAVDWVSLCQLMYDMITGSPPTAEN RKKMDKIIIR - GLKLAPPYLTDARDLAKKPFKR - NSORIGG - GFGDAADVORPPF
 17555946.w RTF COT DYLAP EPLLVR CGH CKAVDWVSLCQLMYDMITGSPPTAEN RRKIDMILK - LTLPAYLSNEARDLAKKPFKR - HVDARLG - AGLSDAEEPLKSAFF
 31190907.a RTF COT DYLAP EPLLVR SGH CRNAVDWVSLCQLMYDMITGSPPTAEN RKKIDMILK - NIPCPYTPDARDLAKKPFKR - QVSORLGS - SGPTDQAVRPPF
 24658719.f RTF COT DYLAP EPLLVR SGH CRNAVDWVSLCQLMYDMITGSPPTAEN RKKIDMILK - CLNLPAYLTQEARDLAKKPFKR - QEPORLGS - SGPEDEAAVCPF
 p7056K.h RTF COT DYLAP EPLLVR SGH CRNAVDWVSLCQLMYDMITGSPPTAEN RKKIDMILK - NHAASRLGA - GPGDAGEVCPF
 20883056.m RTF COT DYLAP EPLLVR SGH CRNAVDWVSLCQLMYDMITGSPPTAEN RKKIDMILK - CLNLPAYLTQEARDLAKKPFKR - NHAASRLGA - GPGDAGEVCPF
 14010889.r RTF COT DYLAP EPLLVR SGH CRNAVDWVSLCQLMYDMITGSPPTAEN RKKIDMILK - CLNLPAYLTQEARDLAKKPFKR - AASRLGA - GPGDAGEVCPF
 RSK2.h YSF COT DYLAP EVVNR RGH TQSDFWVSECVLMPFEMITGSLPFGQKD RKEIMTILKAK - XKLGMQFPLS eAQSLRMLFKR - NPANRLGS - GPDVEELIKRFFF
 22507357.m YSF COT DYLAP EVVNR RGH TQSDFWVSECVLMPFEMITGSLPFGQKD RKEIMTILKAK - LGMPQFPLS eAQSLRMLFKR - NPANRLGS - GPDVEELIKRFFF
 RSK4.h YSF COT DYLAP EVVNR RGH SOSADWVSYCVLMPFEMITGSLPFGQKD RNEFMNILLK - AKLGMQFPLS eAQSLRMLFKR - NPANRLGS - GECVEELIKRFFF
 28529344.m YSF COT DYLAP EVVNR RGH SOSADWVSYCVLMPFEMITGSLPFGQKD RNEFMNILLK - LGMPQFPLS eAQSLRMLFKR - NPANRLGS - SECVEEVVKRFFF
 29789163.m YSF COT DYLAP EVVNR RGH SOSADWVSYCVLMPFEMITGSLPFGQKD RNEFMNILLK - LGMPQFPLS eAQSLRMLFKR - NPANRLGS - SECVEEVVKRFFF
 27706306.r YSF COT DYLAP EVVNR RGH SOSADWVSYCVLMPFEMITGSLPFGQKD RNEFMNILLK - LGMPQFPLS eAQSLRMLFKR - NPANRLGS - SECVEEVVKRFFF
 6755374.m YSF COT DYLAP EVVNR RGH TQSDFWVSECVLMPFEMITGSLPFGQKD RKEIMTILKAK - LGMPQFPLS eAQSLRMLFKR - NPANRLGS - GVDVEELIKRFFF
 20897181.m YSF COT DYLAP EVVNR RGH TQSDFWVSECVLMPFEMITGSLPFGQKD RKEIMTILKAK - LGMPQFPLS eAQSLRMLFKR - NPANRLGS - GVDVEELIKRFFF
 RSK1.h YSF COT DYLAP EVVNR RGH TQSDFWVSECVLMPFEMITGSLPFGQKD RKEIMTILKAK - AKLGMQFPLS eAQSLRMLFKR - NPANRLGS - GIDEVEELIKRFFF
 17508705.w YSF COT DYLAP EVINR RGH SGMADF SLGVLMPEMUTGSLPFGQKD RNDIMTILKAK - LSMPHFLTQeASLRMLFKR - NSQNLGS - AGPDEVEELIKRFFF
 17508707.w YSF COT DYLAP EVINR RGH SGMADF SLGVLMPEMUTGSLPFGQKD RNDIMTILKAK - LSMPHFLTQeASLRMLFKR - NSQNLGS - AGPDEVEELIKRFFF
 24643817.f YSF COT DYLAP EVINR KGH FADWVSLCQLMYEMITGSLPFGQKD RQEFTMNLRSK - LGMPENLSP eAQSLRMLFKR - NPQNLGS - AGAQCLDOLIKRCCF
 31205767.r YSF COT DYLAP EVINR KGH FADWVSLCQLMYEMITGSLPFGQKD RQEFTMNLRSK - LGMPENLSP eAQSLRMLFKR - NPQNLGS - AGAQCLDOLIKRCCF
 6677811.m YSF COT DYLAP EVINR QGH TQSDFWVSYCVLMPFEMITGSLPFGQKD RKEIMTILKAK - LGMPQFPLS eAQSLRMLFKR - NPANRLGS - GPDFAEEELIKRFFF
 RSK3.h YSF COT DYLAP EVINR QGH TQSDFWVSYCVLMPFEMITGSLPFGQKD RKEIMTILKAK - AKLGMQFPLS eAQSLRMLFKR - NPANRLGS - GPDFAEEELIKRFFF
 13592065.r YSF COT DYLAP EVINR QGH TQSDFWVSYCVLMPFEMITGSLPFGQKD RKEIMTILKAK - LGMPQFPLS eAQSLRMLFKR - NPANRLGS - GPDFAEEELIKRFFF
 PKCz.h STF COT NYIAPELLRG ERY GFSVDMWALCVLMPFEMMAGRSPDIDITDNNTEDYFQVILE RKEIMTILKAK - KTRIPRFLSVKAHSVKGFLNK - DKERLIGCR - POTEFSDIKSHAFF
 6679355.m STF COT NYIAPELLRG ERY GFSVDMWALCVLMPFEMMAGRSPDIDITDNNTEDYFQVILE RKEIMTILKAK - KTRIPRFLSVKAHSVKGFLNK - DKERLIGCR - POTEFSDIKSHAFF
 PKCi.h STF COT NYIAPELLRG ERY GFSVDMWALCVLMPFEMMAGRSPDIDIVGSSNTEDYFQVILE RKEIMTILKAK - KQIRIPRFLSVKAHSVKGFLNK - DKERLIGCR - POTEFAOIQCPF
 11968080.r STF COT NYIAPELLRG ERY GFSVDMWALCVLMPFEMMAGRSPDIDITDNNTEDYFQVILE RKEIMTILKAK - KQIRIPRFLSVKAHSVKGFLNK - DKERLIGCR - POTEFAOIQCPF
 27689561.r STF COT NYIAPELLRG ERY GFSVDMWALCVLMPFEMMAGRSPDIDIVGS NTEDYFQVILE RKEIMTILKAK - IRIPRSLSVKAASVKGFLNKD - PKERLIGCR - POTEFAOIQCPF
 31240263.a STF COT NYIAPELLRG ERY GFSVDMWALCVLMPFEMMAGRSPDIDIVGS NTEDYFQVILE RKEIMTILKAK - IRIPRSLSVKAASVKGFLNKD - PKERLIGCR - GPDFAEEELIKRFFF
 31240261.r STF COT NYIAPELLRG ERY GFSVDMWALCVLMPFEMMAGRSPDIDIVGS NTEDYFQVILE RKEIMTILKAK - IRIPRSLSVKAASVKGFLNKD - PKERLIGCR - GPDFAEEELIKRFFF
 24653760.f STF COT NYIAPELLRG ERY GFSVDMWALCVLMPFEMMAGRSPDIDIVGS NTEDYFQVILE RKEIMTILKAK - IRIPRSLSVKAASVKGFLNKD - PKERLIGCR - GPDFAEEELIKRFFF
 17533011.w STF COT NYIAPELLRG ERY GFSVDMWALCVLMPFEMMAGRSPDIDIVGMOENTEDYFQVILE RKEIMTILKAK - IRIPRSLSVKAASVKGFLNKD - PKERLIGCR - 1dINELRDRMKBGF
 6679349.m STF COT NYIAPELLRG ERY GFSVDMWALCVLMPFEMMAGRSPDIDITDNNTEDYFQVILE RKEIMTILKAK - IRIPRSLSVKAASVKGFLNKD - PKERLIGCR - 1dINELRDRMKBGF
 19074474.y YMI COT DYLAP EPLLSE DDCGRASDY GLCVMYIEMICGDPFGVDS ADDAIMKHLIESN - VVPFPHVSYSPVARCLTGLEDKN - RAIPLIGK - GICEIMGPFFF
 21357091.f NLEAVANFSVFAPE RPLYFRSDWVSYCVVYQYLICGVYKVTHPG QLDIYGVQY - PSESSEISDHAKDLECLQL - SPERLIG - DVDOLQCPF
 31241451.a KQSAIRALNIVAPB RPLEPRDF SIVVIMPEMTCRKFVSCHPS QVFCYHE - VQYFEGvELSMARIEPLQF DVERALIG - KDKOHALIAFF
 19075734.y VGRVCTPVYMAP EPLLRA VSYKEESDWVSLCQTYECFQVRPNSHLL INWRASEEKA - SSADRSSLASHIGRDKLTTISKDRASVAMAFEDM - IKKRLIG - HSSKQLQHMPFFF
 AK111189.q TSKCGLAYLAPEWYECK GYCEVDMWVSLCQTYECFQVRPNSHLL HDSLAALKSKEETYP - NEKRRIG - AIFGESETDPLQF
 17554256.w TSKCGLAYLAPEWYECK eiedgyDSRWDWVSLCQTYECFQVRPNSHLL RKEIMTILKAK - SSIPYPAHWTDLJQFINSMLKE - DEKPLIGV - LEAKHGSY
 31203333.a CSMGCKPYMAP EPLLRCal eeiAGYYPDWVSLCQVVAEYLRSQVRPVVHHS - STPLAEVKVNLT - QPHYPRHWSDHFDLJSKELNV - HPGARIS - ILKELHLKULL
 28573249.f CSMGCKPYMAP EPLLRCal hiiAGYYPDWVSLCQVVAEYLRSQVRPVVHHS - STPLAEVKVNLT - VHYPRWSSNFDLQRLRST - YPGARIS - TROELHQTPML
 10946600.m TALAGTCKPYMAP EPLLFSVng nggTGY SFEVDWVSLCQVVAEYLRSQVRPVVHHS - NTPLAEVKVNLT - NPEHFSLL - QDMQATPSLQVWV
 YANK3.h TALAGTCKPYMAP EPLLFSVNGG TGY SFEVDWVSLCQVVAEYLRSQVRPVVHHS - SNAVESLQVLFSTVS - TVSVQYVPTWSKEMVALRKLTV - NPERLIS - SLDVQAPAL
 20829933.m SSMAGTCKPYMAP EPLLFSVNGG dggPGY SFEVDWVSLCQVVAEYLRSQVRPVVHHS - ATPIDEHLNMFKVER - DPESRSL - SLRDQSMNTYL
 YANK2.h SSMAGTCKPYMAP EPLLFSVNGG PGY SFEVDWVSLCQVVAEYLRSQVRPVVHHS - VTPIDEHLNMFKVER - DPESRVL - SHDIOVSPYML
 30520199.m ITVACTKPYMAP EPLLTSR keTGY SFAVDWVSLCQTYEYLRLCRRPMSHRS - STSSKEVNNMFETAI - VTVTPSASQeMVSLLKKLHEP - NDPERFS - HLTDIONPYM
 28524295.m ITVACTKPYMAP EPLLTSR keTGY SFAVDWVSLCQTYEYLRLCRRPMSHRS - STSSKEVNNMFETAI - VTVTPSASQeMVSLLKKLHEP - NDPERFS - HLTDIONPYM
 YANK1.h ITMAGTCKPYMAP EPLLTSRAGY SFEVDWVSLCQTYEYLRLCRRPMSHRS - STSSKEVNNMFETAI - VTVTPSASQeMVSLLKKLHEP - NDPERFS - QLSDVONPYM
 31203895.a CTL COT IQYMAP EPLLRCal EPIY GHAVDWVSLCQLACRMYTICRVSSDV - S - EDLPEEVQHQLTHEGRDILRNQTLT - EPROHI - RSVMAFLORAIN
 24643118.f ITMAGTCKPYMAP EPLLRCal EPIY GHAVDWVSLCQLACRMYTICRVSSDV - YTCCTCQYMAP EPLLRCal REYBTIDAWLAVIAQMIOKTSPNIKRLL - APMIAQINGCQDSDGd - S - EDLPEEVQHQLTHEGRDILRNQTLT - EPROHI - RSVMAFLORAIN
 SgK494.h ITMAGTCKPYMAP EPLLRCal REYBTIDAWLAVIAQMIOKTSPNIKRLL - DSETPASLNQGLLSDLHELCQ - DNLBR - RYLBHIEQCPF
 13786172.r SNTVCTPAFMAP EPLLSET rKIFS CKALDVLIAVMYLCVYQCFVGOCPCMDERI - MCLHSKIKSQALE - FPDOPDTAEGLKDLITRMLDKN - PESRI - VVPETKHPBMV
 21703722.m SNTVCTPAFMAP EPLLSET rKIFS CKALDVLIAVMYLCVYQCFVGOCPCMDERI - MCLHSKIKSQALE - FPDQPDIAEGLKDLITRMLDKN - PESRI - VPEKHPBMV
 13928916.g SSTAQTPAFMAP EPLLSET gQSFs CKALDVLIAVMYLCVYQCFVGOCPCMDERI - LALHKKIKNAAV - FPEEPVSEELKDLITRMLDKN - PESRI - CVSDIKLHPBMV
 9256525.m SSTAQTPAFMAP EPLLSET gQSFs CKALDVLIAVMYLCVYQCFVGOCPCMDERI - YILTHKKIKNAAV - NPETRIG - VSDIKLHPBMV
 19075216.y TTHCOT DYLAP EPLLVEQ KEHTEKVDIISLQVLTVEFIVCAPBEDMS GHSATYKHKDAVKD - LKIPSFVPPDARLISRLQHNN - PEKRM - LEOVMPRPN
 19074458.y MTC COT DYLAP EPLLVEQ DIHDGSLDDEGLCILYAEFLMGKTPESKN RNNRBEYKRNNSLK - YTIPETISSNASDFISRLVLS - PGDRME - LTCIHFPE
 Ip11.y KTF COT DYLAP EPLLSPMVEWS REYBTIDAWLAVIAQMIOKTSPNIKRLL - KIMPSNISQDAQDILIKLKYD - PKDRMR - LGDVKMPBPW
 17505246.w OTMCOT DYLAP EPLLSPMVEWS REYBTIDAWLAVIAQMIOKTSPNIKRLL - DSETPASLNQGLLSDLHELCQ - DNLBR - RYLBHIEQCPF
 17137514.f RTLCOT DYLAP EPLLSPMVE DGADHSDAVDIAVIGVLCQEFIVVCPPEHEED - QSKYAAIAKAAR - FTYPDPSVKKGARDLJGRHLV - DPKARIC - TLEOVKPEHWW
 31225986.r KTM COT DYLAP EPLLSPMVE KMY DSDVQDNCQCLVLCQEFIVVCPPEBSQT - TQTYTDPKRLIDI - ISYPSHLSKgCKEJGGQHLR - ESKRLI - TLVDWMMNPBMV
 AK073918.q HTECOT DYLAP EPLLSPMVEK AHDEBAINVTLIICLTYAEFLMGKTPESKN - AKDLYKVKfvvliipivylkwellsf1r - DNLBR - SLDIMKPEPW
 19074458.y MTC COT DYLAP EPLLSPMVE NN - QDDTLPKIVKDSLFP - STPYVSAd - LSPFLTPNVSReAKNLISQLVK - DSKRLI - SIEKIMCPW
 17557200.w HTECOT DYLAP EPLLSPMVE QPDEFNVIITLICLTYAEFLMGKTPESKN - GDNIAJARCK - IIPPSVWVJD9AASJNAPPIK - DPKARIC - PLVWVCPW
 31241687.a HTECOT DYLAP EPLLSPMVEQ PPHKTDTWVSLCQLVLCQEFIVVCPPEBSQT - YEEFLYKIMKQVY - TPVDPVIAKASLISRLQHNL - DPKARIC - PLENVAPCPW
 17136516.f MTC COT DYLAP EPLLSPMVEQ KPHTKNVDIISLQVLCQEFIVVCPPEBSQT - YDEYKHKILKVD - NQPHRLI - PLDWMVCPW
 10181114.m KTM COT DYLAP EPLLSPMVE KPY NEWMVDLGI CIVLQYELVSKPFBESST - SSEYRIRQVD - DPKARIC - LAOVLKCPW
 AurC.h KTM COT DYLAP EPLLSPMVE EG RTY DEKVDLICIVLQYELVSKPFBESASHS - EYRIRLKV - DVPRLPLSMLPARDLISRLQHNL - QPLERL - PLQDILKCPW

23622050.m KTMCGCTTDYLPPEMIEEQ-RMH-NEWDLICIGIVLCVLELMVGNCPPESPS-HSE-YRRIIVKVD-LKPPSSVPsgaODLSKLKHK-NPWORDP-LAEVIAAPNV
 16758580.r KTMCGCTTDYLPPEMIEBG-RMH-NEWDLICIGIVLCVLELMVGNCPPESPS-HSE-YRRIIVKVD-LKFPSMLgAKDLISKLKHKHNSQRLT-PSQRLT-PLQVSAFPNV
 Aur.B.h KTMCGCTTDYLPPEMIEEQ-RMH-NEKDVLICIGIVLCVLELMVGNCPPESASHN-EYRRIIVKVD-DLKPPASVPTGAODLSKLKHKHNSQRLT-PSQRLT-PLQVSAFPNV
 AK102360.q RTMCCTTDYLPPEMIEKT-EHDYBWDIISLCLCILCCEFTYGVPPREAKE-HSE-YRRIIVKVDLKFPLK-NSQRLT-PSQRLT-PLQVSAFPNV
 15233958.p RTMCCTTDYLPPEMIES-VEHDASVDIISLCLCILCCEFTYGVPPREAME-HSE-YRRIIVQVD-LKFPPKPIISASAKDLISQMLVK-NSQRLT-PSQRLT-PLQVSAFPNV
 15225210.p RTMCCTTDYLPPEMIES-VEHDASVDIISLCLCILCCEFTYGVPPREARE-HSE-YRRIIVKNE-LKFPPKPIIVSSAKDLISQMLVK-ESSORLT-PSQRLT-PLQVSAFPNV
 20862949.r TTMCGTTDYLPPEMIEEQ-RMH-DEKVDLISLCLCILCCEFTYGVPPREAH-T-YQE-YRRIISRVE-FTFPDFVTEgARDLISRPLKHK-NSQRLT-PSQRLT-PLQVSAFPNV
 23463275.r TTMCGTTDYLPPEMIEBG-RMH-DEKVDLISLCLCILCCEFTYGVPPREAH-T-YQE-YRRIISRVE-FTFPDFVTEgARDLISRPLKHK-NSQRLT-PSQRLT-PLQVSAFPNV
 Aur.A.h TTMCGTTDYLPPEMIEEQ-RMH-DEKVDLISLCLCILCCEFTYGVPPREAH-T-YQE-YRRIISRVE-BTFPPDFVTEgARDLISRPLKHK-NSQRLT-PSQRLT-PLQVSAFPNV
 19074666.y DPERNVEYISDVKER-GEISFSPSYMMWVGVPFAADP-TALVVARIKRGR-IEFFEFLDENARLDLISRLLAVS-PRDLRG-YAEGDAEHTHRPFFF
 17568523.r TFTVGTAYLYSPPEMLAD-GDVGPFQNDIINGLCLLFOCAGQPPFRAVN-QYHLLKRIQE-LDFSPPEGFPeaSEHAKLVR-DESTRIL-TSQEIMAKFFF
 17568521.w TFTVGTAYLYSPPEMLAD-GDVGQFDIDILGCLLFOCAGQPPFRAVN-QYHLLKRIQE-LDFSPPEGFPeaSEHAKLVR-DESTRIL-TSQEIMAKFFF
 AK073712.g CTFVGTAYYYSPPEVLNs-a-pPTFCGNDIALACCTYLQMIAGSPPSKDAS-EWLIFPQRILLDRDIP-DSKRLG-AGDFYKQPPF-
 30681369.r CTFVGTAYYYSPPEVLNs-SPATFCGNDIALACCTYLQMIAGSPPSKDAS-EWLIFPQRILLDRDIP-DSKRLG-AGDFYKQPPF-
 18414583.p CTFVGTAYYYSPPEVLNs-SPATFCGNDIALACCTYLQMIAGSPPSKDAS-EWLIFPQRILLDRDIP-DSKRLG-AGDFYKQPPF-
 17555466.s SSFVGTAYYYSPPELLTG-SEMSPSEDIAFESVILPFTGYPPRNDMS-TFSDPFDENAKNTERLVR-DSKRLG-AGDFYKQPPF-
 AK101032.r NSFVGTAYYYCPPELLTk-aSYYCSIDLALCCCLYQMIAGCLPPGRGSN-EYLFVRFNQDILY-DKFPRIG-AKAGQFYSPPRAAPFFF
 24654496.f ASFVGTAYYYSPPEVLON-GPITPAIDLALCCCLYQMIAGCLPPGRGSN-DYLVFKBLLDCA-DFDPQFLRDIVKRCVVL-
 24654500.f ASFVGTAYYYSPPEVLON-GPITPAIDLALCCCLYQMIAGCLPPGRGSN-DYLVFKBLLDCA-VDFPQGFDFDKdEDIVKRCVLR-
 24654485.f ASFVGTAYYYSPPEVLON-GPITPAIDLALCCCLYQMIAGCLPPGRGSN-DYLVFKBLLDCA-VDFPQGFDFDKdEDIVKRCVLR-
 24654489.r ASFVGTAYYYSPPEVLON-GPITPAIDLALCCCLYQMIAGCLPPGRGSN-DYLVFKBLLDCA-VDFPQGFDFDKdEDIVKRCVLR-
 24654493.f ASFVGTAYYYSPPEVLON-GPITPAIDLALCCCLYQMIAGCLPPGRGSN-DYLVFKBLLDCA-VDFPQGFDFDKdEDIVKRCVLR-
 31242445.a RSFVGTAYYYSPPELLTG-TPSSEASDLSYCCYLQMIAGCVPSPRAAS-EYLFVKNILRCQV-
 19113086.y SSFVGTAYYYSPPELLTG-VVSKSSDIAFACCVLIVQMIAGCVPSPRAAS-PNNIKKIMSL-EYLFVKNILRCQV-
 19075942.y SSFVGTAYYYSPPEVLQ-VVSKSSDIAFACCVLIVQMIAGCVPSPRAAS-PNNIKKIMSL-EYLFVKNILRCQV-
 Pkhl2.y KSFVGTAYYYSPPELLNDS-FTDYZRCDIIFACGILQFMIAKPPSKATN-EYLFVQVMKVQ-LDRRLT-ISOIKEHFFF
 Pkhl1.y KSFVGTAYYYSPPELLND-YTDSRCDIIFACGILQFMIAKPPSKAAAN-EYLFVQVMKVQ-PNDRLT-IKQVIAKEHFFF
 Ydx466w.y ASFVGTAYYYSPPELLYN-QCYGGSDIAGLCMIVQMIAGCVPSPRAAS-ELRFEKIVALD-YWGPENNRNTSTPILVNLVQKHLVIE-
 13592023.r NSFVGTAYYYSPPELLTE-KSA-CKSSDIAGLCMIVQMIAGCVPSPRAAS-EYLFVQVMKVQ-
 6755020.m NSFVGTAYYYSPPELLTE-KSA-CKSSDIAGLCMIVQMIAGCVPSPRAAS-EYLFVQVMKVQ-
 PDK1.h NSFVGTAYYYSPPELLTE-KSA-CKSSDIAGLCMIVQMIAGCVPSPRAAS-EYLFVQVMKVQ-
 2186.t19.q SQGACTKWLIPPECFDLskTP-FISSKDWDVSAQVVMYOMFGRRLPGHHDQTQ-ERILEDITIINARRVEF-
 31204337.a SQGACTKWLIPPECFDLskTP-npKSISKWDVSVGCVIYQCYKSKPPGHNQS-ATILEENIILKATE-
 17552082.r SQGACTKWLIPPECFDIVp-pKICKVWDVSIICVIVYQCYKSKPPGHNQS-QKILEYNTIINARE-YWGPENNRNTSTPILVNLVQKHLVIE-
 32564583.w SQGACTKWLIPPECFDIVp-pKICKVWDVSIICVIVYQCYKSKPPGHNQS-QDILQENIILKATEVQ-
 6755805.m SQGACTKWLIPPECFDIVp-epPKI-SNKWDVSVGCVIYQCYKSKPPGHNQS-QDILQENIILKATEVQ-
 25025431.n SQGACTKWLIPPECFDIVp-epPKI-SNKWDVSVGCVIYQCYKSKPPGHNQS-QDILQENIILKATEVQ-
 TLK2.h SQGACTKWLIPPECFVVGKEP-PK1-SNKWDVSVGCVIYQCYKSKPPGHNQS-QDILQENIILKATEV-
 27369956.m SQGACTKWLIPPECFVVGK-epPKI-SNKWDVSVGCVIYQCYKSKPPGHNQS-QDILQENIILKATEV-
 TLK1.h SQGACTKWLIPPECFVVGKEP-PK1-SNKWDVSVGCVIYQCYKSKPPGHNQS-QDILQENIILKATEV-
 8360.t66.q THVVCCTGMLAPLGRH-katPYNDVFAECAFELVICRCPVQE-PMVLVDVLDWY-
 8359.t89.q ATIRCTIGYAPPEVGLN-kvsiyedtysfctvllleiteTKRHPADAD-FAODLILRHLFG-R-EGSINETV-
 8351.t75.q MGFRCTIGYAPPEVAGH-mvSTHODIIVSYCIVLVEMITCRGPNTDNT-CE~~Q~~~~S~~1RKCVEMAL-
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 AK102130.q RSIKCTPLYMAPELVREQ-PYNTSTADLISLCLVILYELFVQGPFSYTN-
 28269679.m TSIKCTPLYMAPELVEE-RPY-DHTADLISLCLVILYELAVGCPFPYTTIS-QLVSLILKDP-
 Fused.h TSIKCTPLYMAPELVEE-RPY-DHTADLISLCLVILYELAVGCPFPYTTIS-
 ULK4.h SRVKGSPVYAPPEVREQ-ADF-SISDLSIISLCLVILYEMPSKCPFPSESVS-
 25051442.m HVLKGSPVYAPPEVCR-RQY-DARVDLISLCLVILYEMPSKCPFPSESVS-
 ULK3.h HVLKGSPVYAPPEVCR-RQY-DARVDLISLCLVILYEMPSKCPFPSESVS-
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 31981564.m KTCGCTPNYIAPPEVLSK-KGH-SFEDVDMISLCLVIVYIILTVGVPFPQKQH-

PLK1.h

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