

A

CKL1 (1) -----MEPRVGNKFRIGRKIGSGSFGEIYLGNTIHTNEELAIKLENVKTKHPOLLYESKLYRILQGGTGVP
 CKL2 (1) -----MEPRVGNKFRIGRKIGGGSGFEIYLGNTIQNEEVAIKLENVKTKHPOLLYESKLYKVLQGGTGVP
 CKL3 (1) -----MERIIGGKYKILGRKIGGGSGFEIFLATHVDTFEIVAVKIENSKTCKHPOLLYYEAKLYRILEGGSGIP
 CKL4 (1) -----MERIIGGKYKILGRKIGGGSGFEIFLATHIDTFEIVAVKIENSKTCKHPOLLYYEAKLYRTLEGGSGIP
 CKL5 (1) -----MEPRVGNKFRIGRKIGGGSGFEIYLGTDVQINBEVAIKLESVKTAKHPQLSYESRIVLQGGTGIP
 CKL6 (1) -----MDLKMDNVIGGKFKILGRKIGGGSGFEIFLAVSLQTGEAAAVKLEPAKTKHPQLHYESKLYMLLQGGSGIP
 CKL7 (1) -----MDLVIGGKFKILGRKIGGGSGFEIYLGVNVQVTGEEVAVKLENVKTKHPQLHYESKLYMLLQGGSGIP
 CKL8 (1) -----MDRVVGGKYKILGRKIGGGSGFEIFLGVNVQVTGEEVAVKLEPARARHPQLHYESKLYMLLQGGTGIP
 CKL9a (1) -----MDLVIGGKFKILGRKIGGGSGFEIYLGINVTGEEVAVKLESVKTAKHPQLHYESKLYMLLQGGTGVP
 CKL9b (1) -----MDLVIGGKFKILGRKIGGGSGFEIYLGINVTGEEVAVKLESVKTAKHPQLHYESKLYMLLQGGTGVP
 CKL10 (1) -----MDHVIGGKFKILGRKIGGGSGFEIYLGINVTGEEVAVKLEPVKTKHPQLHYESKLYMLLQGGTGVP
 CKL11 (1) -----MDRVVGGKFKILGRKIGGGSGFEIFLGVNVQVTGEEVAVKLEPLRARHPQLHYESKLYMLLQGGTGIP
 CKL12 (1) -----MEPRVGNKFRIGRKIGGGSGFEIYLGTIQTNEEVAIKLENVKTKHPOLLYESKLYRILQGGTGVP
 CKL13 (1) -----MDRVVGGKFKILGRKIGGGSGFEIFLGVNVQVTGEEVAVKLEPLRARHPQLHYESKLYMLLQGGTGIP

CKL1 (67) NVKWYGVEGDYNVLVMDLLGPSLEDLFNFCSRKLSLKVSLMLADQMINRVEFFHSKSFLHRDLKPDNFLM
 CKL2 (67) NVKWYGVEGDYNVLVIDLLGPSLEDLFNFCSRKLSLKVSLMLADQMINRIEFVHQKSFLHRDLKPDNFLM
 CKL3 (67) RIKWFGVDGTENALVMDLLGPSLEDLFVYCRKFSPKTVLMADQMLTRIEFVHSKGYLHRDLKPDNFLM
 CKL4 (67) RIKWFGVDGTENALVMDLLGPSLEDLFVYCRKFSPKTVLMADQMLTRIEFVHSKGYLHRDLKPDNFLM
 CKL5 (67) NMKWYGVEGDYNVLVMDLLGPSLEDLFSYCRQFSLKVSLMLADQMINRLEFISKSYSYLHRDLKPDNFLM
 CKL6 (71) SLKWFVGQGDYNAMVIDLLGPSLEDLFNYCNRRLTLKVSLMLADQMLSLRVEYMHSGFLHRDLKPDNFLM
 CKL7 (67) NIKWFGVEGDYDVMVIDLLGPSLEDLFNYCNRKLTLKVSLMLADQMLLNREVFMTTRGFLHRDLKPDNFLM
 CKL8 (67) HLKWYGVEGEYNCMVIDLLGPSMEDLFNYCSRFRNLKVSLMLADQMINRVEYMHVRGFLHRDLKPDNFLM
 CKL9a (67) NLKWYGVEGDYNVMVIDLLGPSLEDLFNYCNRKLTLKVSLMLADQMLINRVEFMHTRGFLHRDLKPDNFLM
 CKL9b (67) NLKWYGVEGDYNVMVIDLLGPSLEDLFNYCNRKLTLKVSLMLADQMLINRVEFMHTRGFLHRDLKPDNFLM
 CKL10 (67) HIKWFGVEGNCMVIDLLGPSLEDLFNYCTRSFLSLTVLMLADQMLINRVEYMHSGFLHRDLKPDNFLM
 CKL11 (67) HLKWFGVEGEFNCMVIDLLGPSMEFFFNYSRSLNLTKVSLMLADQMINRVEYMHVKGFLHRDLKPDNFLM
 CKL12 (67) NIKWFGVEGDIYNTLVMDDLLGPSLEDLFNFCSRKLSLKVSLMLADQMINRVEYFHSKSFLHRDLKPDNFLM
 CKL13 (67) HLKWFGVEGEFNCMVIDLLGPSMEFFFNYSRSLNLTKVSLMLADQMINRVEYMHVKGFLHRDLKPDNFLM

CKL1 (137) GLGRRANQVYIIDFGGLAKKYRDSTTHQIPIRENKNLTGTARYASMNTHLGIEQSRRDDLES LGYI LMYF
 CKL2 (137) GLGRRANQVYIIDFGGLAKKYRDSN-HQHPIRENKNLTGTARYASMNTHLGIEQSRRDDLES LGFVLMYF
 CKL3 (137) GLGRKANQVYIIDFGGLAKRYRDANTNRHPIRENKNLTGTARYASCNTHLGIEQSRRDDLES LGYVLLYF
 CKL4 (137) GLGRKANQVYIIDFGGLAKRYRDANTNRHPIRENKNLTGTARYASCNTHLGIEQGRRDDLES LGYVLLYF
 CKL5 (137) GLGRRANQVYIIDYGLAKKYRDSTSRTHRHPIRENKSLIGTPRYASLNTHLGIEQSRRDDLES LGYI LMYF
 CKL6 (141) GLGRKANQVYIIDFGGLAKKYRDQLOTHRHIPIRENKNLTGTARYASVNTHLGVEQSRRDDLES LGYVLMYF
 CKL7 (137) GLGRKANQVYIIDFGLGKKYRDQLOTHKHIPIRENKNLTGTARYASVNTHLGVEQSRRDDLES LGYVLMYF
 CKL8 (137) GLGRKANQVYIIDYGLAKKYRDQLOTHRHIPIRENKNLTGTARYASVNTHLGIEQSRRDDLES LGYVLMYF
 CKL9a (137) GLGRKANQVYIIDFGLGKKYRDQLOTHRHIPIRENKNLTGTARYASVNTHLGVEQSRRDDLES ALGYVLMYF
 CKL9b (137) GLGRKANQVYIIDFGLGKKYRDQLOTHRHIPIRENKNLTGTARYASVNTHLGVEQSRRDDLES ALGYVLMYF
 CKL10 (137) GLGRKANQVYIIDYGLAKKYRDQLOTHKHIPIRENKNLTGTARYASVNTHLGIEQSRRDDLES LGYVLMYF
 CKL11 (137) GLGRKANQVYIIDYGLAKKYRDQLOTHKHIPIRENKNLTGTARYASVNTHLGIEQSRRDDLES LGYI LMYF
 CKL12 (137) GLGRRANQVHIIDFGGLAKKYRDNTTHOPIRENKNLTGTARYASMNTHLGIEQSRRDDLES LGYI LMYF
 CKL13 (137) GLGRKANQVYIIDYGLAKKYRDQLOTHKHIPIRENKNLTGTARYASVNTHLGIEQSRRDDLES LGYI LMYF

CKL1 (207) LKGSLPWQGLKAGTKKQKYERISEKKVSTSIEALCRGPSEFASYFHYCRSLRFDDKPDAYLKRIFRDL
 CKL2 (206) LKGSLPWQGLKAGNKQKYEKISEKKVSTSIEALCRGPSEFASYFHYCRSLRFDDKPDAYLKRLFRDL
 CKL3 (207) LRGSLPWQGLKAVDKKQKYDKICEKKISTPIEVLCKNHPVFASYFHYCHTLTFDQRPDYGFLKRLFRDL
 CKL4 (207) LRGSLPWQGLKAVDKKQKYDKICEKKISTPIEVLCKSHPVFASYFHYCHTLTFDQRPDYGFLKRLFRDL
 CKL5 (207) LKGSLPWQGLKAGNKQKYDKISEKKVSTSIETLCRGHPTEFASYFHYCRSLRFDDKPDAYLKRLFRNL
 CKL6 (211) LRGSLPWQGLKAGTKKQKYDRISEKKVSTSIEVLCKSYPPFVSYFQYCRSLRFEDKPDYSYLKRLFRDL
 CKL7 (207) LKGSLPWQGLKAGTKKQKYDRISEKKVSTSIEVLCKNQPSEFVSYFHYCRSLRFDDKPDYSYLKRLFRDL
 CKL8 (207) LRGSLPWQGLRAGTKKQKYDRISEKKRLLTPVEVLCKSFPPFETSYFLYVRSRLRFEDKPDYFLKRLFRDL
 CKL9a (207) LKGSLPWQGLKAGTKKQKYDRISEKKVATPIEVLCKNQPSEFVSYFHYCRSLRFDDKPDYSYLKRLFRDL
 CKL9b (207) LKGSLPWQGLKAGTKKQKYDRISEKKVATPIEVLCKNQPSEFVSYFHYCRSLRFDDKPDYSYLKRLFRDL
 CKL10 (207) IRGSLPWQGLKAGTKKQKYEKISEKKMLTPVEVLCKSYPPFETSYFLYFHYCRSLRFDDKPDYSYLKRLFRDL
 CKL11 (207) LRGSLPWQGLRAGTKKQKYDRISEKKRLLTPVEVLCKNFPPEFTSYFLYVRSRLRFEDKPDYSYLKRLFRDL
 CKL12 (207) LKGSLPWQGLKAGTKKQKYERISEKKVSTSIESLCRGYPSEFASYFHYCRSLRFDDKPDYGYLKRIFRDL
 CKL13 (207) LRGSLPWQGLRAGTKKQKYDRISEKKRLLTPVEVLCKNFPPEFTSYFLYVRSRLRFEDKPDYSYLKRLFRDL

CKL1 (277) FIREGFQFDYVFDWTILKYQQ
 CKL2 (276) FIREGFQFDYVFDWTILKYQQ
 CKL3 (277) FSREGYEFDYIFDWTTI IKYQQ
 CKL4 (277) FSREGYEFDYIYDWTTI IKYQQ
 CKL5 (277) FIREGFQFDVFDWTIVYKQQ
 CKL6 (281) FIREGYQFDYVFDWTALKHPQ
 CKL7 (277) FIREGYQFDYVFDWTVLKYPQ
 CKL8 (277) FIREGYQFDYVFDWTILKYPQ
 CKL9a (277) FIREGYQFDYVFDWTVLKYPQ

CKL9b (277) FIREGYQFDYVFDWTVLKYPQ
 CKL10 (277) FIREGYQFDYVFDWTLKYPQ
 CKL11 (277) FIREGYQFDYVFDWTLRYPQ
 CKL12 (277) FIRECFQFDYVFDWTLKYQQ
 CKL13 (277) FIREGYQFDYVFDWTLRYPQ

B

CKL1 (1) -----MEPRVGNKFRLGRKI**GGSFGEIYLGTNIHTNEELAIKLENVKTKHPQLLYESKLYRILOQGGTGP**
 CKL2 (1) -----MEPRVGNKFRLGRKI**GGSFGEIYLGTNIQTNEEVAIKLENVKTKHPQLLYESKLYKVLOQGGTGP**
 CKL3 (1) -----MERIIGGKYKLGK**I**GGGSFGEIYLGTNIQTNEEVAIKLENVKTKHPQLLYESKLYRILEGGS*CIP*
 CKL4 (1) -----MERIIGGKYKLGK**I**GGGSFGEIYLATHVDTPEIVAVKIENSKTKH*P*QLLYEAALKYRILEGGSG*CIP*
 CKL5 (1) -----MEPRVGNKFRLGRKI**GGSFGEIYLGTDVQTNEEVAIKLESVKAHPQLYESKLYRVLQGGTGP**
 CKL6 (1) MDLKMDNVI**G**GGKFKLGRKI**GGSFGEIYLGTFLAVSLQTGEAAKLEPAKTH*P*QLHYESKLYMMLQGGSC*P***
 CKL7 (1) -----MDLVIGGKFKLGRKI**GGSFGEIYLGVNVQTCEEVAKLENVKTKHPQLHYESKLYMMLQGGTGP**
 CKL8 (1) -----MDRVVGGKYKLGK**R**L**K**GGSFGEFLGVNVQTCEEVAKLENVKTPQLHYESKLYMMLQGGTGP
 CKL9a (1) -----MDLVIGGKFKLGRKI**GGSFGEIYLGINVQTCEEVAKLESVKTKH*P*QLHYESKLYMMLQGGTGP**
 CKL9b (1) -----MDLVIGGKFKLGRKI**GGSFGEIYLGINVQTCEEVAKLESVKTKH*P*QLHYESKLYMMLQGGTGP**
 CKL10 (1) -----MDHVI**G**GGKFKLGRKI**GGSFGEIYLGINVQTCEEVAKLENVKTPKHPQLHYESKVMMLQGGTGP**
 CKL11 (1) -----MDRVVGGKFKLGRKI**GGSFGEIYLGVNVQTCEEVAKLENVKTPQLHYESKLYMMLQGGTGP**
 CKL12 (1) -----MEPRVGNKYRGRKI**GGSFGEIYLATHIQTNEEVAIKLENVKTKHPQLLYESKLYRILQGGTGP**
 CKL13 (1) -----MDRVVGGKFKLGRKI**GGSFGEIYLGVNVQTCEEVAKLENVKTPQLHYESKLYMMLQGGTGP**
 AK110592 (1) -MTTM**D**LVRGVGNKYRGRKI**GGSFCDIYLGTNIISCEEIAIKLESVKAHPQLYEARVYKSLAGGVG*P***
 AK101388 (1) -----MEHVI**G**GGKFKLGRKI**GGSFGEIYLGVNIQSSEEVAIKLESVKSHPQLHYESKLYMMLQGGTGP**
 AK111554 (1) -----MDHVI**G**GGKFKLGRKI**GGSFGEIYLGTFLAVNVQTCEEVAKLENVKTKHPQLHYESKLYMMLQGGTGP**
 AK111597 (1) -----MDRIVGAKYKLGK**I**GGGSFCEIYLATHVDTPEIVAVKIESSKTKH*P*QLFYEAALKYNAQGGG*A*
 AK111599 (1) -----MDRIVGGKFKLGRKI**GCGSFGEIYLATHVDTPEIAAVKIESSKTKHPQLFYEAALKYNAQGGG*A***
 AK111911 (1) -----MEPRIGNKFRVGRKL**G**GSFGEIYLGTNVQTNEEVAIKLENVKTKHPQLLYESKLYRILQGGT*CIP*
 AK111947 (1) -----MEPRVGNKYRGRKL**GGSFGEIYLGTNVQTNEEVAIKLENVKTKHPQLLYESKLYRILQGGTGP**
 AK111987 (1) -----MERVIGGKFKLGRKI**GGSFGEIYLAVNIQNSBEAVAKLESVKSHPQLHYESKLYMMLQGGTGP**
 AK120765 (1) -----MEQVVG**G**GYKLGK**I**GGGSFGEIYLGVNIHNGEVGIKLESVRSKHPQLHYESKVMQMGGNC*P*
 NP_916571 (1) -----MEPRVGNKFRLGRKI**GGSFGEIYLGTNIQTNEEVAIKLENVKTKHPQLLYESKLYRILQGGTGP**

 CKL1 (67) NVK**W**FVGEVDYNLVMDLLGPSLEDLFNFCSRKLSLKSVMLADQMNRVEFFHSKSFLHRDLKPDNFLM
 CKL2 (67) NVK**W**FVGEVDYNLVLDLLGPSLEDLKSLKTVMLADQMNRVEFVHQKSFLHRDIKPDNFLM
 CKL3 (67) RIKWF**G**VGDGTENALVMDLLGPSLEDLFVYCGRKFSKPTVMLADQMNLTRIEFVHSKGYLHRDIKPDNFLM
 CKL4 (67) RIRWF**G**VGDGTENALVMDLLGPSLEDLFVYCGRKFSKPTVMLADQMNLTRIEFVHSKGYLHRDIKPDNFLM
 CKL5 (67) NMKWF**G**VGEVDYNLVMDLLGPSLEDLFSYCKRQFSLKTVMLADQMNRLEFIHSKSYLHRDIKPDNFLM
 CKL6 (71) SLKWF**G**VQGDYNAMVIDLLGPSLEDLFNYCNRRLTIAVMLADQLISRVEYMHSGFLHRDIKPDNFLM
 CKL7 (67) NIKWF**G**VGEVDYSVMDLLGPSLEDLFNYCNRKLTLTVMLADQMLNRVEFMHTRGFHRDIKPDNFLM
 CKL8 (67) HLKWF**G**VGEYNCMVIDLLGPSMEDLFNYCNSRRFNKLTVMLADQMLNRVEFMHTRGFHRDIKPDNFLM
 CKL9a (67) NLKWF**G**VGEVDYNVMVIDLLGPSLEDLFNYCNRKLSTKTVMLADQMLNRVEFMHTRGFHRDIKPDNFLM
 CKL9b (67) NLKWF**G**VGEVDYNVMVIDLLGPSLEDLFNYCNRKLSTKTVMLADQMLNRVEFMHTRGFHRDIKPDNFLM
 CKL10 (67) HIKWF**G**VGEVGNYNCAIDLLGPSLEDLFNYCTRSFSLKTVMLADQMLNRVEYMHSGFLHRDIKPDNFLM
 CKL11 (67) HIKWF**G**VGEVGFNCMVIDLLGPSMEEFFNYCSRSFSLKTVMLADQMINRVEYMHVGFLHRDIKPDNFLM
 CKL12 (67) NIKWF**G**VGEVDYNTLVM**D**LLGPSLEDLFNFCSRKLSLKSVMLADQMINRVEYFHSKSFLHRDLKPDNFLM
 CKL13 (67) HIKWF**G**VGEVGFNCMVIDLLGPSMEEFFNYCSRSFSLKTVMLADQMINRVEYMHVGFLHRDIKPDNFLM
 AK110592 (70) FVRWF**G**TCDYNAVIDLLGPSLEDLFNFCSRKLSLKTVMLADQMINRVEYIHA**S**FIHRDIKPDNFLM
 AK101388 (67) HIKWF**G**VGEVGNYNMVIDLLGPSLEDLFNYCNRKSFKSLTVMLADQMINRVEYMHSGFLHRDIKPDNFLM
 AK111554 (67) HIKWF**G**VGEVGNVNVIDLLGPSLEDLFNYCSRKFSLKTVMLADQMINRVEYMHQKGFLHRDIKPDNFLM
 AK111597 (67) NIKWC**G**IDGEDNVLVIDLLGPSLEDLFVYCGRRFSLKTVMLADQMINTRVEFMSHSKGYLHRDIKPDNFLM
 AK111599 (67) NVKWC**G**VGEENVLVIDLLGPSLEDLFVYCGRKFTLKTVMLADQMINTRVEFMSHSKGYLHRDIKPDNFLM
 AK111911 (67) NVKWF**G**VGEVDYNLVMDLLGPSLEDLFSCNRKLSLKTVMLADQMINRVEFVHSKSFLHRDIKPDNFLM
 AK111947 (67) NVKWF**G**VGEVDYNLVMDLLGPSLEDLFSCNRKLSLKTVMLADQMINRVEFVHSKSFLHRDIKPDNFLM
 AK111987 (67) HIKWF**G**VGEVGNVNVIDLLGPSLEDLFNYCNRKL**I**KS**I**VMLADQMINTRVEYMHSGFIHRDIKPDNFLI
 AK120765 (67) HMKWF**G**VAGEHNVNVIDLLGPSLEDLFNSCRKFSLKTVMLADQMINRVEYMHSGFIHRDIKPDNFLI
 NP_916571 (67) NVRWF**G**VGEVDYNLVMDLLGPSLEDLFNFCS**I**LKTVMLADQMINRVEFVHSKSFLHRDIKPDNFLM

 CKL1 (137) GLGRKANQVYI**I**DFGLAKKYRDSTTHQH**I**PYRENKNLTGTARYASMNTHLGIEQSRRDDLESLGYILMYF
 CKL2 (137) GLGRKANQVYV**I**DFGLAKKYRD**S**N-HQH**I**PYRENKNLTGTARYASMNTHLGIEQSRRDDLESLGFLVLMYF
 CKL3 (137) GLGRKANQVY**I**DFGLAKRYRDANTNRH**I**PYRENKNLTGTARYASCNTHLGIEQSRRDDLESLGYVLLYF
 CKL4 (137) GLGRKANQVY**I**DFGLAKRYRD**A**NTNRH**I**PYRENKNLTGTARYASCNTHLGIEQSRRDDLESLGYVLLYF
 CKL5 (137) GLGRRANQVYI**I**DYGLAKKYRD**S**STTHR**I**PYRENKSLIGTPRYASLNTHLGIEQSRRDDIESLGYILMYF
 CKL6 (141) GLGRKANQVYI**I**DFGLAKKYRD**L**QTHR**I**PYRENKNLTGTARYASVNTLHGVEQSRRDDLESLGYVLMYF
 CKL7 (137) GLGRKANQVYI**I**DFGLGKKYRD**L**QTHR**I**PYRENKNLTGTARYASVNTLHGVEQSRRDDLESLGYVLMYF
 CKL8 (137) GLGRKANQVYI**I**DYGLAKKYRD**L**QTHR**I**PYRENKNLTGTARYASVNTLHGIEQSRRDDLESLGYVLMYF
 CKL9a (137) GLGRKANQVYI**I**DFGLGKKYRD**L**QTHR**I**PYRENKNLTGTARYASVNTLHGVEQSRRDDLESLGYVLMYF
 CKL9b (137) GLGRKANQVYI**I**DFGLGKKYRD**L**QTHR**I**PYRENKNLTGTARYASVNTLHGVEQSRRDDLESLGYVLMYF
 CKL10 (137) GLGRKANQVYI**I**DYGLAKKYRD**L**QTHR**I**PYRENKNLTGTARYASVNTLHGIEQSRRDDLESLGYVLMYF
 CKL11 (137) GLGRKANQVYI**I**DYGLAKKYRD**L**QTHR**I**PYRENKNLTGTARYASVNTLHGIEQSRRDDLESLGYLLMYF

CKL12 (137) GLGRRANQVHI IDFGGLAKKYRDLNTTHOHIPYRENKLTGTARYASMTLHGIEOSRRDDLES LGYILMYF
 CKL13 (137) GLGRKANQVYI IDYGLAKKYRDLQTHKHIPYRENKLTGTARYASVNTLHGIEQSRRDDLES LGYLLMYF
 AK110592 (140) GIGKRGQNVNVIDFGGLAKKYRDPKTHFHIPYRENKLTGTARYASINTLHGVEQSRRDDMESLGYVMLYF
 AK101388 (137) GLGRKASQVYIIDYGLAKKYRDLQTHKHIPYRENKLTGTARYASVNTLHGVEQSRRDDLES LGYVLMYF
 AK111554 (137) GLGRKANQVYIIDYGLAKKYRDLQTHKHIPYRENKLTGTARYASVNTLHGVEQSRRDDLES LGYVLMYF
 AK111597 (137) GLGRKANQVYIIDFGLAKRYRDATTNRHIPYRENKLTGTARYASCNTLHGIEQSRRDDLES IGYVLLYF
 AK111599 (137) GLGRKANQVYIIDFGLAKRYRDSNNRHIPYRENKLTGTARYASCNTLHGVEQSRRDDLES LGYVLLYF
 AK111911 (137) GLGKRANQVYIIDFGLAKKYRDLSTTHOHIPYRENKLTGTARYASVNTLHGIEQSRRDDMESLGYVLMYF
 AK111947 (137) GLGKRANQVYIMDFGLAKKYRDLSTTHOHIPYRENKLTGTARYASVNTLHGIEQSRRDDLES LGYVLMYF
 AK111987 (137) GLGRKANQVYIIDYGLAKKYRDLQTHKHIPYRENKLTGTARYASVNTLHGVEQSRRDDLES LGYVLMYF
 AK120765 (137) GLGRKANQVYIIDYGLAKKYRDLQTHKHIPYRENKLTGTARYASVNTLHGIEQSRRDDLES VGYLLLYF
 NP_916571 (137) GLGRRANQVYIIDFGLAKKYRDLTTHOHIPYRENKLTGTARYASVNTLHGIEQSRRDDLES LGYVLMYF

CKL1 (207) LKGSLPWQGLKAGTKKQKYERISEKKVTSIEALCRGPSEFASYFHYCRSLRFDDKPDYAYLKRIFRDL
 CKL2 (206) LKGSLPWQGLKAGNKQKYEKISEKKVTSIEALCRGPSEFASYFHYCRSLRFDDKPDYAYLKRLFRDL
 CKL3 (207) LRGSLPWQGLKAVDKKQKYDKICEKKISTPIEVLCKNHPVEFASYFHYCHTLTFDQRPDYGFLKRLFRDL
 CKL4 (207) LRGSLPWQGLKAGDKKQKYDKICEKKISTPIEVLCNSHPVEFASYFHYCHTLTFDQRPDYGFLKRLFRDL
 CKL5 (207) LKGSLPWQGLKAGNKQKYDKISEKKVTSIEITLCRGPTEFASYFHYCRSLRFDDKPDYAYLKRLFRNL
 CKL6 (211) LRGSLPWQGLKAGTKKQKYDRISEKKVSTPIEVLCNSYPPEFVSYFQYCRSLRFEDKPDYSYLKRLFRDL
 CKL7 (207) LKGSLPWQGLKAGTKKQKYDRISEKKVSTPIEVLCNQPSFVSYFHYCRSLRFDDKPDYSYLKRLFRDL
 CKL8 (207) LRGSLPWQGLRAGTKKQKYDKISEKKRLTPVEVLCKSFPPFETSYFLYVRSLRFEDKPDYPYLKRLFRDL
 CKL9a (207) LKGSLPWQGLKAGTKKQKYDRISEKKVATPIEVLCNQPSFVSYFHYCRSLRFDDKPDYSYLKRLFRDL
 CKL9b (207) LKGSLPWQGLKAGTKKQKYDRISEKKVATPIEVLCNQPSFVSYFHYCRSLRFDDKPDYSYLKRLFRDL
 CKL10 (207) IRGSLPWQGLKAGTKKQKYEKISEKKMLTPVEVLCKSYPSEFTSYFLYCRSLRFEDKPDYSYLKRLFRDL
 CKL11 (207) LRGSLPWQGLRAGTKKQKYDKISEKKRLTPVEVLCKNPFPFETSYFLYVRSLRFEDKPDYSYLKRLFRDL
 CKL12 (207) LKGSLPWQGLKAGTKKQKYERISEKKVTSIESLCRGPSEFASYFHYCRSLRFDDKPDYGYLKRIFRDL
 CKL13 (207) LRGSLPWQGLRAGTKKQKYDKISEKKRLTPVEVLCKNFPFPFETSYFLYVRSLRFEDKPDYSYLKRLFRDL

AK110592 (210) CRGSLPWQGLKAATKKQKYDRIMEKKMTTPTEEVLCRGFPNEFAIYLNYTRSLRFDDKPDYSYLKRIFRDL
 AK101388 (207) LRGSLPWQGLKAGTKKQKYDKISEKKMLTPVEVLCKSYPTEFISYFHYCRSLRFEDKPDYSYLKRLFRDL
 AK111554 (207) LRGSLPWQGLKAGTKKQKYDKISEKKMLTPVEVLCKSYPSEFISYFHYCRSLRFEDKPDYSYLKRLFRDL
 AK111597 (207) LRGSLPWQGLKAATKKQKYDKICEKKLATPIEVLCNSHPVEFASYFHYCHSLTFDQRPDYGFLRRLFRDL
 AK111599 (207) LRGSLPWQGLKAATKKQKYDKICEKKISTPIEVLCNSCPVEFASYFHYCRSLRFEDKPDYAFVKRLLRDL
 AK111911 (207) LRGSLPWQGLKAGNKQKYEKISERKIATSTEALCRGPTEFASYFHYCRSLRFEDSPDYQYLKRLFRDL
 AK111947 (207) LRGSLPWQGLKAGTKKQKYEKISERKIATSEALCRGPCEFQSYFHYCRSLRFEDLPDYQYLKRLFRDL
 AK111987 (207) LRGSLPWQGLKAGTKKQKYDRISEKKMLTPVEVLCKSYPSEFTSYFLYCRSLRFEDKPDYSYLKKLFRDV
 AK120765 (207) LRGSLPWQGLKAGTKKQKYDRISEKKMLTPAEVLCKSYPSEFTSYFLYCRSLRFEDKPDYSYLKKLFRDV
 NP_916571 (207) LRGSLPWQGLKAGTKKQKYEKISEKKVATSI EALCRGPTEFASYFHYCRSLRFDDKPDYSYLKRLFRDL

CKL1 (277) FIREGFQFDYVF DWTILKYYQQSQL -- TAPPSR-AINPAVGTSAAALPPGISNIDRYTGEEEG-RPHMES-
 CKL2 (276) FIREGFQFDYVF DWTILKYYQQSQI --- STPPPR-HHGPVVGPSALPPAITSAERPSGGDEARPSSWSS-
 CKL3 (277) FSREGYEF DYIF DWTIIKYYQQAQKSRSQAVPGSSNPRAMPVDTSNHRGGPNISYEAEASERVRSANAI
 CKL4 (277) FSREGYEF DIIY DWTIIKYYQQSQKTRSQSQAVPGSSNARAIPMDTSNHRGGTKISHEAQVSDRVRPANAS
 CKL5 (277) FIREGFQFDVF DWTIVYKYYQQSQS -- GNPQPR-PHDGGVGTSSGLNPVGNS-----E-----
 CKL6 (281) FIREGYQFDYVF DWTALKHPQS-SARSHSSSTHERHR - TGKPGMAGPSAEKPERISVGNIR-DKFSGAV
 CKL7 (277) FIREGYQFDYVF DWTIVLKVYPQIGSSSSSSSRTRHHT - TAKPGFNADP-IERQERILGKETTRYKIPGAV
 CKL8 (277) FIREGYQFDYVF DWTIVLKVYPQFSSSSSSSKPRSSLRPMNPVPVIAERPDKPSAGAGQDSR-DRFSGAL
 CKL9a (277) FIREGYQFDYVF DWTIVLKVYPQIGSSSSSSSRTRVYY - AAASFSGS-----
 CKL9b (277) FIREGYQFDYVF DWTIVLKVYPQIGSSSSSSSRTRNHT - TANPLTAGASLEKQERIAGKETRENRFSGAV
 CKL10 (277) FIREGYQFDYVF DWTILKYPQSGS -- ISKPRPNPKPALDPPGPGSAERNEKP -- IVGQDLR-ERFSGAV
 CKL11 (277) FIREGYQFDYVF DWTILRYPQFGSSSSNSKPRPTLRPAMNI PVPSADKAEP -- PIGQDSR-ERFSGVF
 CKL12 (277) FIREGFQFDYVF DWTILRYPQFGSSSSNSKPRPTLRPAMNI PVPSADKAEP -- PIGQDSR-ERFSGVF
 CKL13 (277) FIREGYQFDYVF DWTILRYPQFGSSSSNSKPRPTLRPAMNI PVPSADKAEP -- PIGQDSR-ERFSGVF

AK110592 (280) FIREGFQYDYVF DWTIVYKYYQKNN -- AQAIQAQANQGQGEE ----- DDKGRG-----
 AK101388 (277) FIREGYQLDYIF DWTIKQGS ----- ESNRLRSSG -- R-TSGLVGPASAERTERAARQDVPDFSGTV
 AK111554 (277) FIREGYQFDYVF DWTILKYPQI -- GSKPLMRPSE -- R-TSGAAGPSMEKMEKAPG-----
 AK111597 (277) ADREGYQYDHVDWTLLKCKQSQKA -- KAQQQDPGVSSRAVPTNIEKHQVSVRPTEASQLES -- EQ
 AK111599 (277) FTROVYEF DYTDF DWTIVLRYKQGQ -- KVQHGSATITRATPGDLDKTAGVNGAFPHNEAREQTGPSHLA
 AK111911 (277) FIPEGFQFDYVF DWTILKYYQQSQM -- TSAPPRAIAPATGQSSAMAPIANN - RLSATEEGRRSGWSDM
 AK111947 (277) FIREGFQFDYVF DWTILKYYQQSQI -- TSVPPR-AIAAAAGQSSGMSPIANNN - RLSATEEGRRSGWSD-
 AK111987 (277) FIREGYQFDYVF DWTMLKYPQI -- RDNLKLRPSG-K-T-SGGLVGRSAERTERTTG-----
 AK120765 (277) FTREGYQLDYIF DWTITSKNPQ -- MGSTNKLICQQQ -- SGRMIGIGPSVDRPDKTSVQGEIRDRFTGAV
 NP_916571 (277) FIREGFQFDYVF DWTILKYYQQSQI -- ASAPPR-AVGHGAGPSGLAPPALQND - RQSGVDEGRRTSGWSS-

CKL1 (341) -SRRR-VSGALDNGNISNQPT ----- SSSARDSMIP ----- SSSLFAQSAGSSRRVTAVSGSR--
 CKL2 (341) -GIPRRNNSQGQIFNSGSLAKQKAPVSSDPAISKDVVILS ----- SSSFL-RATGSSRRA-AVSSSR--
 CKL3 (347) GPSPQINNNNTAACRTPGFDHP -- VHKNMNMP ----- STSLSPAGTSKRNVG-----
 CKL4 (347) GPSPQIN -- TAVGRSLGFDQ -- VHKNMNMP ----- STSLSPAGTSKRNVR-----
 CKL5 (327) -- KRPDVNPQRTNPDTLQKDKNGNDSAIAKDKLPP ----- GSLNLGRSEGSSRRVDTSSR--
 CKL6 (347) EAFARRNVRGPSPHQNHTRHR -- TLDEIPSMKPAVNMS -- EKGRNTSRYGSAS-RRAVASGS--
 CKL7 (344) EAFSRRHPTTSSPRDRSRSR -- NSDDGPF SKQTHGDS -- ERANSSSRYRASSSRKAVAASSS--
 CKL8 (346) EAYARRNGSGSGVVQADRSPR -- RTSENVLASSKDTPQNYERVERPISSTRHASSS-RKAVVSS-V--

CKL9a (320) -----
 CKL9b (345) EAFSRRHPATSTT-RDRSASR---NSVDGPLSKHPPGDS----ERPRSSSRYGSSS-RRAIPSSS--
 CKL10 (340) EAFARRNVPSPHGIRPKHIFSD---DASKEVQVS-----EKTRNEIAT-KMAVMSS-S--
 CKL11 (344) EAYTRRNNGSGTGVQADQSSRP---RTSENVLAS-KDTQNQ----ERPNSLSRNLSSS-RKAIAGSSV--
 CKL12 (343) -SRRR-MSGALENSGNLSS-----RGPMMP-----SSSLFAQSGAGSSR---RVTSEE--
 CKL13 (344) EAYTRRNNGSGTGVQADQSSRP---RTSENVLAS-KDTQNQ----ERPNSLSRNLSSS-RKAIAGSSV--
 AK110592 (323) ---RHVTTTAAANAGTAAGTK-----RGPVNA-----RQEGTGMQLRSAN-----
 AK101388 (335) DPFFARRTGSNSGHYGEHTKHR---NILDSSLAPKTAVDLDK---RRPTSSSRNGSTS-RKALLSSS--
 AK111554 (327) EASGRRNPTGSLNQSDNYAQRPSMSLKEIMHSTDRSGERTV---ERPTRSSRTGSAS-RRAVASSS--
 AK111597 (341) RPAIRMQFKSTAENS-RSSNR---HTDKLRLVGTST-----ENVLLQSTSFGHADAPRN-
 AK111599 (343) GSAAQLQVKRSTERGPHPNIQ---HTENITQDMTA-----RKHLAASVLPGAERWKDGNSRQLGQ
 AK111911 (342) DAMRQVPPPAINAGSLAKQKSPIGHEQSTSCKDAVFS-----SSTFLGRSSGSSRRP-AVSSSR--
 AK111947 (341) DPTRRQVPPGTGINAGSLSKQKSPVRPDMSTSCKDALFS-----SSTMILGRSSGSLRRP-VVSSSR--
 AK111987 (326) EALARRTGSGSGSGRNGETKHR---TLLDSLMSKATAADTDK---TRPTSLSRNGSTS-RRAVSSS--
 AK120765 (340) EAFARRNP-GSGRLGDNSRHK---SLADSFGSSTEAVVDS-----ERTRTISRNRRSSAKMPTAAAAATPS
 NP_916571 (341) -MDRRRAPPIASVGTIAKQKAPVGNDASFKEPVIS-----ASNFLGRSSGSSRRP-AVSSSR--

 CKL1 (393) ----DNFP-GSEELLQRSRTGDSVSRG-----V-----IPRNSP-GEAGKSTRHYE
 CKL2 (397) ----EAAVLGTDSEPSNPQIVEAGSGSN-S-----KIPVSRNSPIVSSEINKLSSP-SRATTSMVNKE
 CKL3 (391) ----PETSNSGYGSGNRTG---WTSS-----FMSPEK-----
 CKL4 (389) ----PETSNSGFGSGNKTGG-WTSP-----FMSPGK-----
 CKL5 (384) ----EPFS---GGSDNANYETALKG-----IDGLRINNNAGDETAATPQSNGD
 CKL6 (405) --RPSSSGEQRRES--RDSSRVASS---GGGVVRPSVFQRTQAAAASVSGYE-SKTASAFNDRVAASRTARD
 CKL7 (403) --RPSSAGGPSES--RTSSRLVSSSSGGGSGSGNGRPSTSQRVQAGYE-SKTLFSRAT--AARNTRED
 CKL8 (409) --RATSSADFTEN--RSSRVVPSNG-----RSSTAQRTQLVPPTRPSSSFTRAAPSRTARD
 CKL9a (320) -----
 CKL9b (401) --RPSSAGGPSDS--RSSSRLVTSTGGVGTVSN--RASTSQRQIAGNE-SRTSSFSR---AARNTRED
 CKL10 (387) --QPGSSGELSEN--RSSKLFSSS-----AQK-----IQPVQETKLSARLGKD
 CKL11 (402) --RATSSADFTEN--RLSRLIPNNND-----RSSTTLRTQFAPS-----SSSVATKAAPTRAARD
 CKL12 (385) -----L-----QRCRTGAGLRLN-----S-----PVVTTPEGKRSSSSTRKHED
 CKL13 (402) --RATSSADFTEN--RLSRLIPNNND-----RSSTTLRTQFAPS-----SSSVATKAAPTRAARD
 AK110592 (360) -----K-----RGGDQYASGGY-----
 AK101388 (394) --RP-SSGDPIDP--NRSNLIPTSSG-----SSRPSTMQRLHQSTGLETR--SSLTKTARNVHDD
 AK111554 (389) --RPGSSVEPMEQQYSRTSRLFSSS-----GSRPSSTQRVNPSPVGETRATSLSRAAVARGSGDE
 AK111597 (391) -IAISKQTGLVDSNAHGTN-----NPGPSNHL-----
 AK111599 (400) LDALHQKQSFVSNITGSSSGRFPTFL-----HDSPAN-----
 AK111911 (400) --EP---STEADQSRSTTDASPQAF-Q-----RSGAPRWSPQMVDSSDNRRTP-SGRHPSNAKNEY
 AK111947 (399) --ELQ--SSEAEPSSRSTPDASPQTF-Q-----RSAPPRRSSQMLDYSDPRHSS-SGRHAAN-KNEY
 AK111987 (385) --KP-NCGDPSDT--NRTSRLFSSS-----SSRPSAAQRALQSAGAEELRS-SSL SKTRKSSRDD
 AK120765 (401) SRGTSSKGDGGEQ--NRAGRWRVSSGS-----GSNRPSPAACRHHHHHSAAADDRSPPAAKGG
 NP_916571 (398) ----DVMP-IDTSEPSRTRATDASPQAF-R-----RTSGPQKSS-PVNSAEPKHSS-SARHSSNVKNEY

 CKL1 (433) SVVKGIDNLQVSDEHHPH-
 CKL2 (455) ANLKGIESTLHF-----
 CKL3 (416) -----
 CKL4 (415) -----
 CKL5 (425) DVEPQSKAL-----
 CKL6 (467) EALRSFELLSIRK-----
 CKL7 (465) QLR-SFELLSLRK-----
 CKL8 (464) ITLQSSELLTIGNGKRK--
 CKL9a (320) -----
 CKL9b (459) PLRRSLELLTLRK-----
 CKL10 (426) DGLRSFDMLTIGSKRK--
 CKL11 (452) ITLQSSELLLSIGNSKRK--
 CKL12 (417) SAIKGIETLQVSDERFHMH
 CKL13 (452) ITLQSSELLLSIGNSKRK--
 AK110592 (372) -----
 AK101388 (447) PTLRTFERLSSISADRKR--
 AK111554 (446) PLHRSLELLSLGGGKRK--
 AK111597 (417) -----
 AK111599 (431) -----
 AK111911 (455) STIRGIQGLNFQDGDDRIQY
 AK111947 (454) STIRGIQGLNFQDGDDRIQY
 AK111987 (438) PTIRSFEMLSLSADRKR--
 AK120765 (459) TAIRCERLSSIGGERRK--
 NP_916571 (454) SALKGIEGLNFQDGDERVQY