

Product datasheet for **RC215595**

CKAP2 (NM_001098525) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CKAP2 (NM_001098525) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CKAP2
Synonyms:	LB1; se20-10; TMAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC215595 representing NM_001098525
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCACACCGCCGTGCCCCAGGACCTGCAGCTGCCCCGAGTCAGAGGGCGCAGTCCGCATTCAAAG
 AGCAAAGAAGACAAAACTCAAGGAACATCTGTTGAGAAGAAAAACGCTTTTTGCATACAAGCAGGAAAA
 TGAGATGTTATCCAGTAGTAGAGATCAGAGAGTTGTGACATCTGAGGACCAAGTTCAAGAAGGGACTAAA
 GTGCTGAAACTTAAAAACAAAAATGGCTGATAAAGAAAAACATGAAGAGACCTGCAGAGAGCAAAAAATAA
 CAGTGGTGGGAAACATTGTATTCTTTAAAAACCTTCAAATGAACTAACCAATCAACTGTAGTAATTGA
 CACACATAAACCTAAGGATAGTAATCAAACCTCCGCATTTGTTACTAACTGAAGATGATCCCCAAAGTCAA
 CATATGACATTAAGCCAGGCATTTACCTTAAAAACAATAGTAAAAAGAAACAAATGACTACAGAAAAAC
 AAAAGCAAGATGCTAACATGCCCAAGAAACCTGTGCTTGGATCTTATCGTGGCCAGATTGTTGAGTCTAA
 GATTAATTCATTTAGAAAACCTCTACAAGTCAAAGATGAGAGTTCTGCAGCAACAAGAAACTTTACGCC
 ACTATACCTAAAGCCACAAAACCTCAGCCTGTAACACCAGCAGTGTAAACAGTGAAGTAAATAGATCCT
 CCAATATGACTGCCACTACTAAATTTGTGAGCACTACATCTCAGAACACACAACCTGTGGCAGCTCCTAT
 TAGAAGTCATCACAGTAATACCCGGGACACTGTGAAACAAGGCATCAGTAGAACTTCTGCCAATGTTACA
 ATCCGAAAGGGCCTCATGAAAAAGAACTATTACAATCAAAAACAGCTTTATCTAGTGTCAAACAGTT
 CTTCTCAAGGTATAATAAGAAATAAGACTCTATCAAGATCCATAGCATCTGAAGTTATAGCCAGGCCTGC
 TTCATTGTCTAATGATAAACTGATGGAAGTCAAGAGCCCGTTGACCAGCGAAGACATACTGCAGGAAAA
 GCAATTGTTGATAGTAGATCAGCTCAGCCCAAAGAAACCTCGGAAGAGAGAAAAGCTCGTCTGAGTGAGT
 GGAAAGCTGGCAAAGGAAGAGTGCTAAAAAGGCCCCCTAATTCAGTAGTTACTCAGCATGAGCCTGCAGG
 AAAAAATGAAAAACAGTTGGGTCTTTTTGGACTACCATGGCAGAAGAAGATGAACAAAGATTATTTACT
 GAAAAAGTAAACAACACATTTTCTGAATGCCTGAACTTGATTAATGAGGGATGTCCAAAAGAAATATAC
 TGGTCACACTGAATGACCTGATTAATAATTTCCAGATGCCAAAAGCTTGTTAAGTATTGGATATGTCT
 TGCACCTATTGAACCAATCACAAGTCTATTGAAAATATTATTGCAATCTATGAGAAAGCCATTCTGGCA
 GGGGCTCAGCCTATTGAAGAGATGCGACACACGATTGTAGATATTCTAACAATGAAGAGTCAAGAAAAAG
 CTAATTTAGGAGAAAATATGGAGAAGTCTGTGCAAGCAAGGAAGAAGTCAAAGAAGTCAAGTATTGAAGA
 TACAGGTGTTGATGTAGATCCAGAAAACTGGAATGGAGAGTAACTTCATAGAAATTTGCTATTTCAA
 GATTGTGAAAAAGAGCAAGACAACAAAACAAAAGATCCAACCCATGATGTTAAACCCCAATACAGAAA
 CGAGGACAAGTTGCTTAATTAATATAATGTGTCTACTACGCCATACTTGCAAAGTGTGAAAAAAAAGGT
 GCAGTTTGATGGAACAAATCCGCATTTAAAGAGCTGAAGTTTTAACACCAGTGAGACGTTCTCGACGT
 CTTCAAGAGAAAACCTTAAATTTGCCAGATATGTTAAAAGATCATTATCCTTGTGTGCTTCATTGGAAC
 AGCTAACGGAGTTGGGAAGAGAACTGATGCTTTTGTATGCCGCCCTAATGCAGCACTGTGCCGGGTGTA
 CTATGAGGCTGATACAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215595 representing NM_001098525
Red=Cloning site Green=Tags(s)

MSTPAVPQDLQLPPSQRAQSAFKEQRRQKLKEHLLRRKTLFAYKQENEMLSSSRDQRVVTSEDQVQEGTK
 VLKLTVMADKENMKRPAESKNNTVVGKHCIPLKPSNELTNSTVVIDTHPKPKDSNQTPHLLLTEDDPQSQ
 HMTLSQAFHLKNNSSKKKQMTTEKQKQDANMPKKPVLSYRQIVQSKINSFRKPLQVKDESSAATKKLSA
 TIPKATKPPVNTSSVTVKSNNRSMNTATTKFVSTTSQNTQLVRPPIRSHSNTRDVKQGISRTSANVT
 IRKGPHEKELLQSKTALSSVKTSSSQGIIRNKTLRSIASEVIARPASLNDKLEKSEPVDQRRHTAGK
 AIVDSRSAQPKETSEERKARLSEWKAGKRVLRKPPNSVVTQHEPAGQNEKPVGSFWTTMAEEDQRLFT
 EKVNNTFSECLNLINEGCPKEDILVTLNDLIKNIIPDAKKLVKYWICLALIEPITSPIENIIAIYEKAILA
 GAQPIEEMRHTIVDILTMKSQEKANLGENMEKSCASKEEVKEVSIEDTGVVDVPEKLEMESKLRNLLFQ
 DCEKEQDNKTKDPTHDVKTPTNETRTSCLIKYVNSTTPYLVSVKQVQFDGNTSAFKELKFLTPVRRSR
 LQEKTSKLPDMLKDHYPCVSSLEQLTELGREDAFVCRPNAALCRVYYEADTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001098525

ORF Size: 2049 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001098525.2](#), [NP_001091995.1](#)

RefSeq Size: 3739 bp

RefSeq ORF: 2052 bp

Locus ID: 26586

UniProt ID: [Q8WWK9](#)

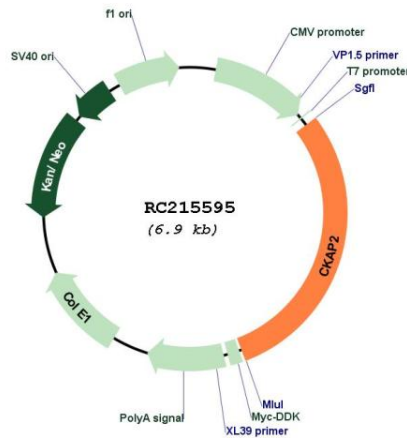
Cytogenetics: 13q14.3

Protein Families: Druggable Genome

MW: 77 kDa

Gene Summary: This gene encodes a cytoskeleton-associated protein that stabilizes microtubules and plays a role in the regulation of cell division. The encoded protein is itself regulated through phosphorylation at multiple serine and threonine residues. There is a pseudogene of this gene on chromosome 14. Alternative splicing results in multiple transcript variations. [provided by RefSeq, Nov 2013]

Product images:



Circular map for RC215595