

Product datasheet for **RC239160**

CKAP2 (NM_001286686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CKAP2 (NM_001286686) 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:**

>RC239160 representing NM_001286686
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGTTATCCAGTAGAGATCAGAGAGTTGTGACATCTGAGGACCAAGTTCAAGAAGGGACTAAAGTGCTGA
 AACTTAAACAAAAATGGCTGATAAAGAAAACATGAAGAGACCTGCAGAGAGCAAAAAATAATACAGTGGT
 GGGGAAACATTGTATTCTTTAAACCTTCAAATGAACAACTTCAACTGTAGTAATTGACACACAT
 AAACCTAAGGATAGTAATCAAACCTCCGCATTTGTTACTAACTGAAGATGATCCCCAAAGTCAACATATGA
 CATTAAGCCAGGCATTTACCTTAAAAACAATAGTAAAAAGAAACAAATGACTACAGAAAAACAAAAGCA
 AGATGCTAACATGCCAAGAAACCTGTGCTTGGATCTTATCGTGGCCAGATTGTTCACTAAGATTAAT
 TCATTTAGAAAACCTCTACAAGTCAAAGATGAGAGTTCTGCAGCAACAAAGAACTTTCAAGCCACTATAC
 CTAAGGCCACAAAACCTCAGCCTGTAACACCAGCAGTGAACAGTGAAGTAATAGATCTCCAATAT
 GACTGCCACTACTAAATTTGTGAGCACTACATCTCAGAACACACAACCTTGTGCGACCTCCTATTAGAAGT
 CATCACAGTAATACCCGGGACACTGTGAAACAAGGCATCAGTAGAACTTCTGCCAATGTTACAATCCGGA
 AAGGGCCTCATGAAAAAGAACTATTACAATCAAAAACAGCTTTATCTAGTGTCAAAACCAGTTCTTCTCA
 AGGTATAATAAGAAATAAGACTCTATCAAGATCCATAGCATCTGAAGTTATAGCCAGGCCTGCTTCATTG
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 TTGATAGTAGATCAGCTCAGCCCAAGAAACCTCGGAAGAGAGAAAAGCTCGTCTGAGTGAGTGGAAGC
 TGGCAAAGGAAGAGTGCTAAAAAGGCCCTAATTCAGTAGTTACTCAGCATGAGCCTGCAGGACAAAAT
 GAAAAACCAGTTGGGTCTTTTGGACTACCATGGCAGAAGAAGATGAACAAAGATTATTTACTGAAAAAG
 TAAACAACACATTTTCTGAATGCCTGAACTTGATTAATGAGGGATGTCCAAAAGAAGATATACTGGTCAC
 ACTGAATGACCTGATTAATAATATTCAGATGCCAAAAGCTTGTTAAGTATTGGATATGTCTTGCACTT
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 AGCCTATTGAAGAGATGCGACACACGATTGTAGATATTCTAACAATGAAGAGTCAAGAAAAAGCTAATTT
 AGGAGAAAATATGGAGAAGTCTTGTGCAAGCAAGGAAGAAGTCAAAGAAGTCAGTATTGAAGATACAGGT
 GTTGATGTAGATCCAGAAAACTGGAAATGGAGAGTAACTTCATAGAAATTTGCTATTTCAAGATTGTG
 AAAAGAGCAAGACAACAAAACAAAAGATCCAACCCATGATGTTAAACCCCAATACAGAAACGAGGAC
 AAGTTGCTTAATTAATATAATGTGTCTACTACGCCATACTTGCAAAGTGTGAAAAAAGGTGCAGTTT
 GATGGAACAAATCCGCATTTAAAGAGCTGAAGTTTTTAACACCAGTGAGACGTTCTCGACGTCTTCAAG
 AGAAAACCTCTAAATTGCCAGATATGTTAAAAGATCATTATCCTTGTGTCTTCATTGGAACAGCTAAC
 GGAGTTGGGAAGAGAACTGATGCTTTGTATGCCGCCCTAATGCAGCACTGTGCCGGGTGACTATGAG
 GCTGATACAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239160 representing NM_001286686
 Red=Cloning site Green=Tags(s)

MLSSRDQRVVTSQVQEGTKVLKLTQMADKENMKRPAESKNNTVVGKHCIPKPSNELTNSTVVIDTH
 KPKDSNQTPHLLLTEDDPQSQHMTLSQAFHLKNNSSKKQMTTEKQKQDANMPKPKVLSYRGQIVQSKIN
 SFRKPLQVKDESSAATKKLSATIPKATKPQPVNTSSVTVKSNNSSNMTATTKFVSTTSQNTQLVRPPIRS
 HHSNTRDTVKQGISRTSANVTIRKGPHEKELLQSKTALSSVKTSSSQGIIRNKTLSRSIASEVIARPASL
 SNDKLMKSEPVQRRHTAGKAIVDSRSAQPKETSEERKARLSEWKAGKGRVLKRPPNSVVTQHEPAGQN
 EKPVGFSWTTMAEEDQRLFTEKVNNTFSECLNLINEGCPKEDILVTLNDLIKNIPIADAKLVKYWICLAL
 IEPITSPIENIIAIYEKAILAGAQPIEEMRHTIVDILTMSQEKANLGENMEKSCASKEEVKEVSIEDTG
 VDVDPEKLEMESKLHRNLLFQDCEKEQDNKTKDPHTDVKTPNTETRTSCLIKYNVSTTPYLQSVKKKVQF
 DGTNSAFKELKFLTPVRRSRRLQEKTSKLPDMLKDHYPCVSSLEQLTELGRETDFAVCRPNAALCRVYYE
 ADTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001286686

ORF Size: 1902 bp

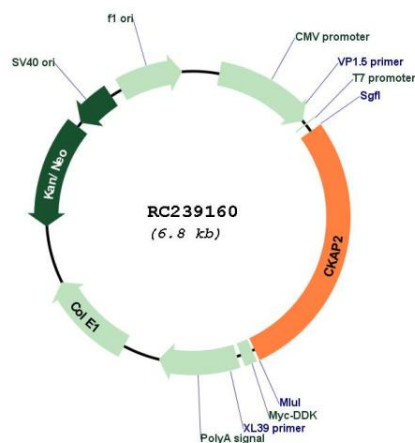
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001286686.1, NP_001273615.1</u>
RefSeq Size:	3677 bp
RefSeq ORF:	1905 bp
Locus ID:	26586
UniProt ID:	<u>Q8WWK9</u>
Cytogenetics:	13q14.3
Protein Families:	Druggable Genome
MW:	71.6 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 RC239160