

## Product datasheet for **RC220472**

### **CKAP2 (NM\_018204) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CKAP2 (NM_018204) 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)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC220472 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCACACCGCCGTGCCCCAGGACCTGCAGCTGCCCCGAGTCAGAGGGCGCAGTCCGCATTCAAAG  
 AGCAAAGAAGACAAAACTCAAGGAACATCTGTTGAGAAGAAAAACGCTTTTTGCATACAAGCAGGAAAA  
 TGAGATGTTATCCAGTAGAGATCAGAGAGTTGTGACATCTGAGGACCAAGTTCAAGAAGGGACTAAAGTG  
 CTGAAACTTAAAAACAAAATGGCTGATAAAGAAAAATGAAGAGACCTGCAGAGAGCAAAAAATAACAG  
 TGGTGGGAAACATTGTATTCTTTAAACCTTCAAATGAACTAACCAATTCAACTGTAGTAATTGACAC  
 ACATAAACCTAAGGATAGTAATCAAACCTCCGATTTGTTACTAACTGAAGATGATCCCCAAAGTCAACAT  
 ATGACATTAAGCCAGGCATTTACCTTAAAAACAATAGTAAAAAGAAACAATGACTACAGAAAAACAAA  
 AGCAAGATGCTAACATGCCCAAGAAACCTGTGCTTGGATCTTATCGTGGCCAGATTGTTCAAGTCTAAGT  
 TAATTCATTTAGAAAACCTCTACAAGTCAAAGATGAGAGTTCTGCAGCAACAAAGAACTTTCAGCCACT  
 ATACCTAAAGCCACAAAACCTCAGCCTGTAAACACCAGCAGTGTAAACAGTGAAAAGTAATAGATCCTCCA  
 ATATGACTGCCACTACTAAATTTGTGAGCACTACATCTCAGAACACACAACCTGTGCGACCTCCTATTAG  
 AAGTCATCACAGTAATACCCGGGACACTGTGAAACAAGGCATCAGTAGAACCTCTGCCAATGTTACAATC  
 CGGAAAGGGCCTCATGAAAAAGAACTATTACAATCAAAAAACAGCTTTATCTAGTGTCAAAACAGTTCTT  
 CTCAAGGTATAATAAGAAATAAGACTCTATCAAGATCCATAGCATCTGAAGTTGTAGCCAGGCCTGCTTC  
 ATTTGCTAATGATAAACTGATGGAAAAGTCAGAGCCCCTTGACCAGCGAAGACATACTGCAGGAAAAAGCA  
 ATTTGTTGATAGTAGACTCAGCTCAGCCAAAGAAACCTCGGAAGAGAGAAAAAGCTCGTCTGAGTGAAGTGA  
 AAGCTGGCAAAGGAAGAGTGTAAAAAGCCCCCTAATTCAGTAGTTACTCAGCATGAGCCTGCAGGACA  
 AAATGAAAAACCGATTGGGTCTTTTTGGACTACCATGGCAGAAGAAGATGAACAAAGATTATTTACTGAA  
 AAAGTAAACAACACATTTTCTGAATGCCTGAACCTTGATTAATGAGGGATGTCCAAAAAGAGATATACTGG  
 TCACACTGAATGACCTGATTAATAATTTCCAGATGCCAAAAAGCTTGTTAAGTATTGGATATGCTTGC  
 ACTTATTGAACCAATCACAACTCATTGAAAATATTATTGCAATCTATGAGAAAGCCATTCTGGCAGGG  
 GCTCAGCCTATTGAAGAGATGCGACACACGATTGTAGATATTCTAACAATGAAGAGTCAAGAAAAAGCTA  
 ATTTAGGAGAAAAATGGAGAAGTCTTGTGCAAGCAAGGAAGAAGTCAAAGAAGTCAAGTATTGAAGATAC  
 AGGTGTTGATGTAGATCCAGAAAACTGGAATGGAGAGTAACTTCATAGAAATTTGCTATTTCAAGT  
 TGTGAAAAAGAGCAAGACAACAAAAACAAAGATCCAACCCATGATGTTAAACCCCAATACAGAAACGA  
 GGACAAGTTGCTTAATTAATATAATGTGTCTACTACGCCATACTTGCAAAGTGTGAAAAAAGGTGCA  
 GTTTGATGGAACAAATCCGCATTTAAAGAGCTGAAGTTTTTAACACCAGTGAGACGTTCTCGACGTCTT  
 CAAGAGAAAACTTCTAAATTGCCAGATATGTTAAAGATCATTATCCTTGTGTCTTATTGGAACAGC  
 TAACGGAGTTGGGAAGAGAAACTGATGCTTTTGTATGCCGCCCTAATGCAGCACTGTGCCGGGTGTA  
 TGAGGCTGATACAACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC220472 protein sequence  
Red=Cloning site Green=Tags(s)

```
MSTPAVPQDLQLPPSQAQSAFKEQRRQKLKEHLLRRKTLFAYKQENMLSSRDQRVVTSEDQVQEGTKV
LKLKTKMADKENMKRPAESKNNTVVGKHCIPKPSNELTNSTVVIDTHPKDSNQTPHLLLTEDDPQSQH
MTLSQAFHLKNNKSKKQMTTEKQKQDANMPKPVLSYRGQIVQSKINSFRKPLQVKDESSAATKLSAT
IPKATKQPVNTSSVTVKSNRSSNMTATTKFVSTTSQNTQLVRPPIRSHSNTRDVTVKQGISRTSANVTI
RKGPEKELLQSKTALSSVKTSSSQGIIRNKTLRSIASEVVARPASLNDKLEKMEKSEPVDQRRHTAGKA
IVDSRSAQPKETSEERKARLSEWKAGKGRVLRPPNSVVTQHEPAGQNEKPVGSFWTTMAEEDEQRLFTE
KVNNTFSECLNLINEGCPKEDILVTLNDLIKNIPTAKKLVKYWICLALIEPITSPIENIIAIYEKAILAG
AQPIEEMRHTIVDILTMSQEKANLGENMEKSCASKEEVEKVSIEDTGVDVDPEKLEMSKLRHLLFQD
CEKEQDNKTKDPHTDVKTPNTETRTSCLIKYNVSTTPYLQSVKKKVFQDGTNSAFKELKFLTPVRRSRL
QEKTSKLPDMLKDHYPCVSSLEQLTELGRETDAFVCRPNAALCRVYVEADTT
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6605\\_a09.zip](https://cdn.origene.com/chromatograms/mk6605_a09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018204

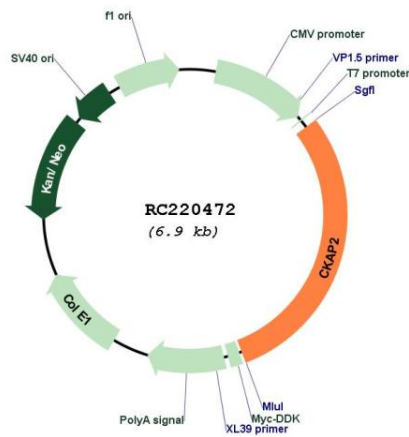
**ORF Size:** 2046 bp

**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](#)

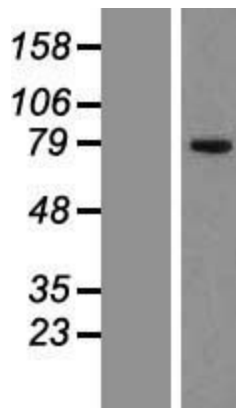
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_018204.5</u>
<b>RefSeq Size:</b>	3736 bp
<b>RefSeq ORF:</b>	2049 bp
<b>Locus ID:</b>	26586
<b>UniProt ID:</b>	<u>Q8WWK9</u>
<b>Cytogenetics:</b>	13q14.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	76.9 kDa
<b>Gene Summary:</b>	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]

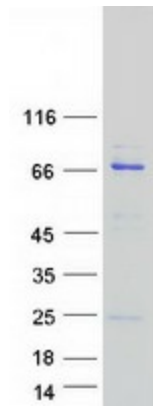
**Product images:**



Circular map for RC220472



Western blot validation of overexpression lysate (Cat# [LY413249]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220472 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CKAP2 protein (Cat# [TP320472]). The protein was produced from HEK293T cells transfected with CKAP2 cDNA clone (Cat# RC220472) using MegaTran 2.0 (Cat# [TT210002]).