

Product datasheet for RC208792

CKAP1 (TBCB) (NM_001281) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CKAP1 (TBCB) (NM_001281) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CKAP1
Synonyms:	CG22; CKAP1; CKAPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208792 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGAGGTGACGGGGTGTGGCACCCACGGTGACCGTTTTTCATCAGCAGCTCCCTCAACACCTCCGCTCCGAGAAGCGATACAGCCGAGCCTCACCATCGCTGAGTTCAAGTGAACTGGAGTTGCTGGTGGGCAGCCCTGCTCCTGCATGGAAGTGGAGCTGTATGGAGTTGACGACAAGTTCTACAGCAAGCTGGATCAAGAGATGCGCTCCTGGCTCCTACCCTGTAGATGACGGCTGCCGATCCACGTCATTGACCACAGTGGCGCCGCCTTGGTGAGTATGAGGACGTGCCGGTGGAGAAGTACACGATCTACAAGAAGCCTACGACCAGAGCAAGACACGGTCCGCTCTTTCCTGAAGCGCAGCAAGCTCGGCCGTACAACGAGGAGGAGCGGGCTCAGCAGGAGCCGAGGCCGCCAGCGCTGGCCGAGGAGAAGGCCAGGCCAGCTCCATCCCCGTGGGCAGCGCTGTGAGGTGCGGGCGGGACAATCCCCTCGCCGGGGCACCGTCATGTATGTAGGTCTCACAGATTTCAAGCCTGGTACTGGATTGGTGTCCGCTATGATGAGCCACTGGGGAAAAATGATGGCAGTGTGAATGGGAAACGCTACTTCGAATGCCAGGCCAAGTATGGCGCCTTTGTCAAGCCAGCAGTCGTGACGGTGGGGGACTTCCCGGAGGAGGACTACGGTTGGACGAGATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC208792 protein sequence
 Red=Cloning site Green=Tags(s)

MEVTGVSAPTVTVFISSSLNTRSEKRYRSRLTIAEFKCKLELLVGPASCMELELYGVDDKFYSKLDQE
 DALLGSYPVDDGCRIVHDHSGARLGEYEDVSRVEKYTISQEA YDQRQDTVRSFLKRSKLGRYNEEERAQ
 QEAEAAQR LAEKAQASSIPVGSRCVRAAGQSPRRGTVMYVGLTDFKPGYWIGVRYDEPLGKNDGVSNG
 KRYFECQAKYGAFVKPAVVTVGDFPEEDYGLDEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6353_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001281

ORF Size: 732 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_001281.3](#)

RefSeq Size: 1475 bp

RefSeq ORF: 735 bp

Locus ID: 1155

UniProt ID: [Q99426](#)

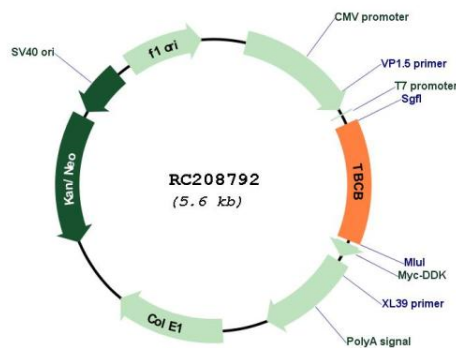
Cytogenetics: 19q13.12

Domains: CAP_GLY

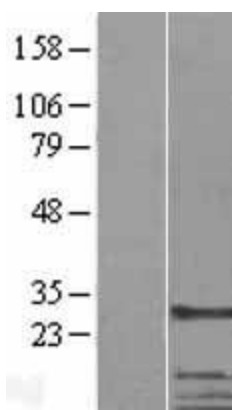
MW: 27.3 kDa

Gene Summary: Binds to alpha-tubulin folding intermediates after their interaction with cytosolic chaperonin in the pathway leading from newly synthesized tubulin to properly folded heterodimer (PubMed:9265649). Involved in regulation of tubulin heterodimer dissociation. May function as a negative regulator of axonal growth (By similarity).[UniProtKB/Swiss-Prot Function]

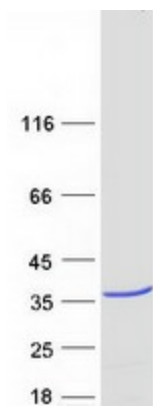
Product images:



Circular map for RC208792



Western blot validation of overexpression lysate (Cat# [LY420030]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208792 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TBCB protein (Cat# [TP308792]). The protein was produced from HEK293T cells transfected with TBCB cDNA clone (Cat# RC208792) using MegaTran 2.0 (Cat# [TT210002]).