

Product datasheet for **RC236460**

CKAP1 (TBCB) (NM_001300971) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CKAP1 (TBCB) (NM_001300971) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TBCB
Synonyms: CG22; CKAP1; CKAPI
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236460 representing NM_001300971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGCTGGAGCTGTATGGAGTTGACGACAAGTTCTACAGCAAGCTGGATCAAGAGGATGCGCTCCTGG
 GCTCCTACCCTGTAGATGACGGCTGCCGCATCCACGTATTGACCACAGTGGCGCCCGCCTTGGTGAGTA
 TGAGGACGTGTCCCGGTGGAGAAGTACACGATCTCACAAGAAGCCTACGACCAGAGGCAAGACACGGTC
 CGCTCTTTCTGAAGCGCAGCAAGCTCGGCCGGTACAACGAGGAGGAGCGGGCTCAGCAGGAGGCCGAGG
 CCGCCAGCGCCTGGCCGAGGAGAAGGCCAGGCCAGCTCCATCCCCGTGGGCAGCCGCTGTGAGGTGCG
 GGCGCGGGACAATCCCCTCGCCGGGGCACCGTCATGTATGTAGGTCTCACAGATTTCAAGCCTGGCTAC
 TGGATTGGTGTCCGCTATGATGAGCCACTGGGGAAAAATGATGGCAGTGTGAATGGGAAACGCTACTTCG
 AATGCCAGGCCAAGTATGGCGCCTTTGTCAAGCCAGCAGTCGTGACGGTGGGGGACTTCCCGGAGGAGGA
 CTACGGGTTGGACGAGATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236460 representing NM_001300971
 Red=Cloning site Green=Tags(s)

MELELYGVDDKIFYSKLDQEDALLGSYPVDDGCRIVHVIDHSGARLGEYEDVSRVEKYTISQEAYDQRQDTV
 RSFLKRSKLGRYNEEERAQQEAEEAQRLAEEKAQASSIPVGSRCVRAAGQSPRRGTVMYVGLTDFKPGY
 WIGVRYDEPLGKNDGVSNGKRYFECQAKYGAFFVPAVVTYVDFPEEDYGLDEI

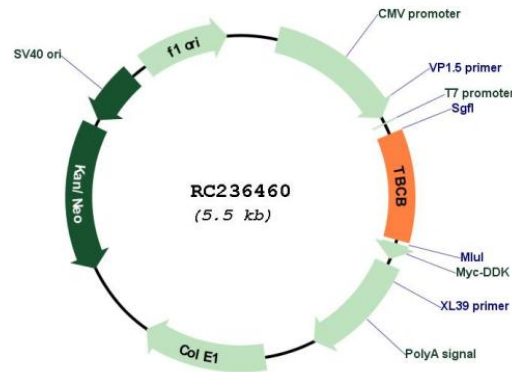
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:

Plasmid Map:


ACCN: NM_001300971

ORF Size: 579 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_001300971.3](#)

RefSeq Size: 900 bp

RefSeq ORF: 582 bp

Locus ID: 1155

UniProt ID: [Q99426](#)

Cytogenetics: 19q13.12

MW: 22.3 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]