

## Product datasheet for **RG208792**

### 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:	TurboGFP
Symbol:	CKAP1
Synonyms:	CG22; CKAP1; CKAPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208792 representing NM_001281 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGTGACGGGGTGTGGCACCCACGGTGACCGTTTTTCATCAGCAGCTCCCTCAACACCTCCGCT  
CCGAGAAGCGATACAGCCGAGCCTCACCATCGCTGAGTTCAAGTGAACTGGAGTTGCTGGTGGGCAG  
CCCTGCTCCTGCATGGAAGTGGAGCTGTATGGAGTTGACGACAAGTTCTACAGCAAGCTGGATCAAGAG  
GATGCGCTCCTGGGCTCCTACCCTGTAGATGACGGCTGCCGCATCCACGTCATTGACCACAGTGGCGCC  
GCCTTGGTGAGTATGAGGACGTGTCCCGGTGGAGAAGTACACGATCTACAAGAAGCCTACGACCAGAG  
GCAAGACACGGTCCGCTCTTTCCTGAAGCGCAGCAAGCTCGGCCGTACAACGAGGAGGAGCGGGCTCAG  
CAGGAGGCCGAGGCCGCCAGCGCTGGCCGAGGAGAAGGCCAGGCCAGCTCCATCCCCGTGGGCAGCC  
GCTGTGAGGTGCGGGCGGGACAATCCCTCGCCGGGGCACCGTCATGTATGTAGGTCTCACAGATTT  
CAAGCCTGGTACTGGATTGGTGTCCGCTATGATGAGCCACTGGGGAAAAATGATGGCAGTGTGAATGGG  
AAACGCTACTTCGAATGCCAGGCCAAGTATGGCGCCTTTGTCAAGCCAGCAGTCGTGACGGTGGGGGACT  
TCCCGGAGGAGGACTACGGTTGGACGAGATA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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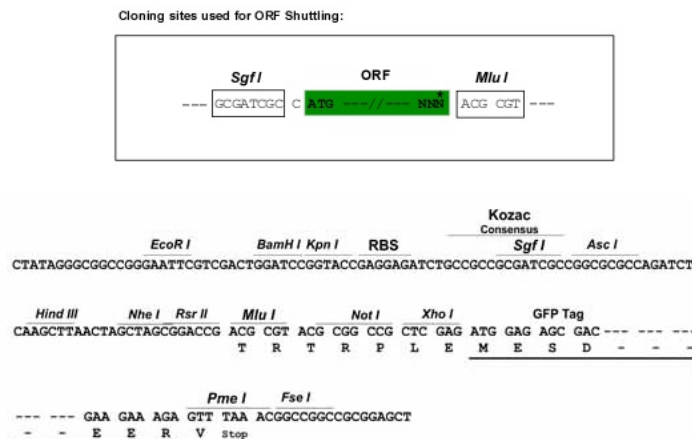
**Protein Sequence:** >RG208792 representing NM\_001281  
 Red=Cloning site Green=Tags(s)

MEVTGVSAPTVTVFISSSLNTRFRSEKRYRSRLTIAEFKCKLELLVGSPASCMELELYGVDDKFYSKLDQE  
 DALLGSYPVDDGCRIVHDHSGARLGEYEDVSRVEKYTISQEA YDQRQDTVRSFLKRSKLGRYNEEERAQ  
 QEAEAAQR LAEEKAQASSIPVGSRCVRAAGQSPRRGTVMYVGLTDFKPGYWIGVRYDEPLGKNDGVSNG  
 KRYFECQAKYGAFVKPAVVTVGDFPEEDYGLDEI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

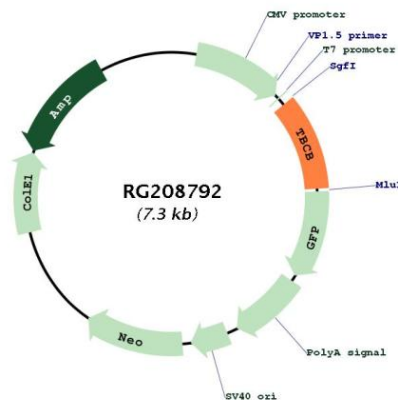
**UniProt ID:** [Q99426](#)

**Cytogenetics:** 19q13.12

**Domains:** CAP\_GLY

**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 RG208792