

## Product datasheet for **RG200555**

### **CRTAP (NM\_006371) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CRTAP (NM_006371) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CRTAP
Synonyms:	CASP; LEPREL3; OI7; P3H5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200555 representing NM_006371 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCGGGGCGCCGGGGGGCCGGCGCTGCTAGCGCTGCTGTGCGTGGCCTGCGCGCTGCGCGCCG  
GGCGCGCCAATACGAACGCTACAGCTTCCGAGCTTCCACGGGACGAGCTGATGCCGCTCGAGTCGGC  
CTACCGGCACGCGCTGGACAAGTACAGCGGCGAGCACTGGGCCGAGAGCGTGGGTACCTGGAGATCAGC  
CTGCGGCTGCACCGCTTGTGCGGACAGCGAGGCCTTCTGCCACCGCAACTGCAGCGCCGCGCCGAGC  
CCGAGCCCGCCGGCCTCGCCAGCTATCCCGAGCTGCGCCTTCTCGGGGCTGCTGCGCCGCGCGCA  
CTGCTCAAGCGCTGCAAGCAGGCGCTGCCAGCCTTCCGCCAGTCCCAGCCAGCCGCGATGTGCTGGCG  
GACTTCCAGCGCCGCGAGCCCTACAAGTTCCTGCAAGTTCGCTTACTTCAAGGCAAATAATCTCCCAAAG  
CCATCGCCGCTGCTCACACCTTTCTACTGAAGCATCCTGATGACGAAATGATGAAGAGGAACATGGCATA  
TTATAAGAGCCTGCCTGGTGCCGAGGACTACATTAAGACCTGGAACCAAGTCATATGAAAGCCTGTTC  
ATCCGAGCAGTGGCGCATACAACGGTGAAGTGGAGAATCCATCACAGACATGGAGCTGGCCCTTC  
CCGACTTCTTCAAAGCCTTTACGAGTGTCTCGAGCCTGCGAGGGTCCAGGGAGATCAAGGACTTCAA  
GGATTTCTACCTTCCATAGCAGATCATTATGTAGAAGTCTGGAATGCAAAAATACAGTGTGAAGAGAAC  
CTCACCCAGTTATAGGAGGCTATCCGGTTGAGAAATTTGTGGTACCATGTATCATTACTTGCAGTTTG  
CCTATTATAAGTTGAACGACCTGAAGAATGCAGCCCCCTGTGCAGTCAGCTATCTGCTCTTTGATCAGAA  
TGACAAGTGCATGCAGCAGAACCTGGTGTATTACCAGTACCACAGGGACACGTGGGGCCTCTCAGATGAG  
CACTTCCAGCCCAGACCTGAAGCAGTTCAGTCTTTAATGTGACCACACTCCAGAAGGAGCTGTATGACT  
TTGCTAAGGAAAATAAATGGATGATGATGAGGGAGAAGTTGTGGAATATGTGGATGACCTCTTGAAGT  
GGAGGAGACCAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200555 representing NM\_006371  
 Red=Cloning site Green=Tags(s)

MEPGRGAAALLALLCVACALRAGRAQYERYSFRRSFPDELMPLESAYRHALDKYSGEHWAESVGYLEIS  
 LRLHRLLRDSEAFCHRNCSSAAPQPEPAAGLASYPELRLFGLLRRAHCLKRCKQGLPAFRSQSPSRDVL  
 DFQRREPYKFLQFAYFKANNLPKAIAAAHTFLLKHPDDEMCKRMAYYKSLPGAEDYIKDLETKSYESLF  
 IRAVRAYNGENWRTSITDMELALPDFFKAFYECLAACEGSREIKDFKDFYLSIADHYVEVLECKIQCEEN  
 LTPVIGGYPVEKVFATMYHYLQFAYYKLNLDLKNAAAPCAVSYLLFDQNDKVMQQNLVYYQYHRDTWGLSDE  
 HFQPRPEAVQFFNVTTLQKELYDFAKENIMDDDEGEVVEYVDDLLELEETS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006371

**ORF Size:** 1203 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\\_006371.3](#), [NP\\_006362.1](#)

**RefSeq Size:** 6622 bp

**RefSeq ORF:** 1206 bp

**Locus ID:** 10491

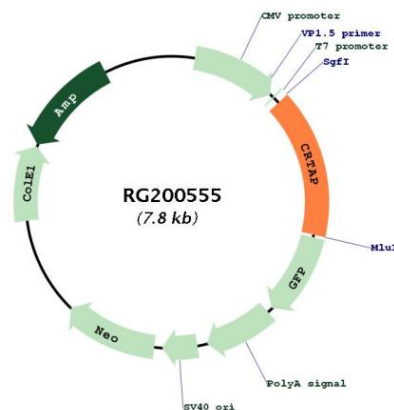
**UniProt ID:** [O75718](#)

**Cytogenetics:** 3p22.3

**Protein Families:** Secreted Protein, Transmembrane

**Gene Summary:** The protein encoded by this gene is similar to the chicken and mouse CRTAP genes. The encoded protein is a scaffolding protein that may influence the activity of at least one member of the cytohesin/ARNO family in response to specific cellular stimuli. Defects in this gene are associated with osteogenesis imperfecta, a connective tissue disorder characterized by bone fragility and low bone mass. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG200555