

## Product datasheet for **MG220384**

### Capn12 (NM\_001110807) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Capn12 (NM_001110807) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Capn12
Synonyms:	CANP 12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG220384 representing NM\_001110807  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCGAGTGGCAACAGGAAGGTCACCATCCAGCTGGTGGACGACGGGGCCGGGACTGGAGCTGGGGGCC  
 CACAGCTCTTTAAAGGCCAGAACTACGAAGCCATCCGAAGAGCTTGCCTGGATCCGGGATCCTGTTTCG  
 TGACCCTTGCTTCTGCTGGCCCTGATGCCCTTGGCTATGACAAGCTGGGACCTGACTCAGAGAAGGCC  
 AAAGGGGTGGAATGGAAGAGGCCCATGAGTTTTGTGCTGAGCCCAAGTTCATCTGTGAAGACATGAGCA  
 GAACAGATGTGTGCCAGGAAGCTTGGGAACTGCTGGCTTCTTGACGCTGCTGCCTCCCTCACACTCTA  
 CCCCAGGCTCCTGTACCGGTGGTCCCCCTGGACAAGTTTTCCAAGATGGCTACGCGGGGGTCTCCAT  
 TTTTCAGCTATGGCAGTTTGGCCGCTGGGTGGATGTGGTGGTAGACGACAACTGCCTGTGCGTGAGGGGA  
 AGCTGATGTTCTGTCGCTCAGAACAAGGAACGAGTTCTGGGCCCTCTGCTGAAAAGGCTATGCCAA  
 GCTCCATGGCTCCTACGAGGTAATGCGAGGAGGTACATGAACGAGGCTTTTGTGGACTTACAGGAGGC  
 GTGGGTGAGGTCCTACTTGGACAAAACACTCCAGGTGCTTTGCTGCCCTTCCGCACGATTGGCCA  
 AGGAGTCCCTTGTGGGTGCTACTGCCCTGAGTGATCGGGGTGAGATCCGCACAGATGAAGGGCTGGTGA  
 GGGACATGCTTATTCTGTACAGGCACGCAAGATGTCTCTGGGCTTACCAAGGTGCGGCTGCTGCGG  
 CTGAGGAACCCCTGGGGCCGCTGGAGTGGTCCGGGCCCTGGAGTGACAGCTGCCACGCTGGGACATGC  
 TCCCTTCTGAGTGGCGAGATGCCCTGCTGTGAAAAAGGAGGATGGCGAGTTCTGGATGGAGCTTCAAGA  
 CTTTCTCACGCACTTCAACACAGTGCAGATTTGTTCACTGAGTCTGAGGTGTTGGGCCCCAGCCCTGCT  
 GGCGGGCGGTGGCATATCCACATCTTCCAGGGCCGCTGGGTGCGAGGCTTCAACTCCGGTGGGAGTCAGC  
 CCAGCGGTGAAAATTCTGGACCAACCCCAAGTCCGGCTGACACTGCTGGAGCCTGATGAGGAAGAGGA  
 TGACGATGATGAAGAGGGACCCTGGGGAGGCTGGGGAGCGCAGGGGCCGGGGCCCGGCGAGAGGAGGC  
 CGAGTCCCAAGTGCACGGTCTGTTGTCACTCATCCAGCGCAACCGCCGGTGTCTGAGGGCCAAGGGCC  
 TCACTTACCTCACTGTGGGCTTCCACGTGTTCCAGATTCCGGAGGAGCTGCTGGACCTCTGGGACTCCCC  
 GCGCAGCCGCGGCTCTTGGCGGACTGCTGCGCGCCGACCGCTCGGTTTTCTGCGCCCGCCGCGACGTG  
 AGCCGTCGCTGTCGCTGCCGCTGGCCACTACCTGGTGGTACCCAGCGCTCGCGGTAGGCGATGAAG  
 CCGACTCACTCTGCGCATCTTCTCGGAGCGCAGCCACACCGCAGTGGAGATCGATGACGTGATCAGCGC  
 AGACTGGACGCCCTCCAGGCCCTACAAGCCCTGGAGCTGGAGTTGGCACAGCTATTTTGGAGCTG  
 GCTGGAGAGGAGGAGGAACCAACGCGCTTCAAGCTGCAGACCTTAATAAGCATTGCTCTGGAACCTGCGA  
 GGGCCAACACCAGGACCCCTGGAGAGATTGGGCTTAGGACCTGCGAACAGCTTGTGACGTGTTTTGGGCG  
 TGGGCAAAGACTGTCCCTACACCACTTCCAGGAGCTCTGGGGCCATCTCATGTATGGCAGGCCACATTT  
 GACAAGTTTATGAAGATGCCTCTGGGACAATGAACTCCTGTGAACTGAGGCTGGCACTGACTGCTGCGAG  
 GCTTCCACCTCAACAACCAGCTGACCCAGTCCCTCACTAGCCGCTACCGGACAGCCGGCTCCGTGTGGA  
 CTTGAGCGCTTCGTGTGCTGTGACGCCGGCTCACCTGCATCTTCCGCCACTGCTGCCAACACCTGGAT  
 GCGGGCAGGGGGTCTGCTGCTGACCCACAAACAGTGGTGGAGGTGGCTACCTTCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG220384 representing NM\_001110807  
 Red=Cloning site Green=Tags(s)

MASGNRKVTIQLVDDGAGTGAGGPQLFKGQNYEAIIRRACLDSGILFRDPCFPAGPDALGYDKLGPDSEKA  
 KGVEWKRPHEFCAEPQFICEDMSRTDVCQGS LGNCWLLAAAASL TLYPRLLYRVVPPGQGFQDGYAGVFH  
 FQLWQFGRWVDVVDDKLPVREGKLMFVRSEQRNEFWAPLLEKAYAKLHGSYEVMRGGHMNEAFVDF TGG  
 VGEVLYLRQNTPGVFAALRHALAKESLVGATALSDRGEIRTDEGLVKGHAYSVTGTHKMSLGFTKVRLLR  
 LRNPWGRVWESGPWSDSCPRWDMLPSEWRDALLVKKEDGEFWMELQDFLTHFNTVQICSLSPEVLGPSPA  
 GGGWHIHFQGRWVRGFNSGGSQPSAENFWTNPQFRLTLEPDEEEDDDDEEGPWGGWGAAGARGPARGG  
 RVPKCTVLLSLIQRNRCLRAKGLTYLTVGFHFVQIPEELLDLWSPRSRALLPGLLRADRSVFCARRDV  
 SRRCLPPGHYLVPVSRVGEADFTLRIFSERSTAVEIDDI SADLDALQAPYKPLELELAQLFLEL  
 AGEEEELNALQLTLISIALEPARANTRTPGEIGLRTCEQLVQCFGRGQRLSLHHFQELWGHLMMSWQATF  
 DKFDEEDASGMTNSCELRLALTAAGFHLNQLTQSLTSRYRDSRLRVDFERFVCCAARLTCIFRHCCQHLD  
 GGEGVCLTHKQWSEVATFS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001110807

**ORF Size:** 2160 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\\_001110807.1](#), [NP\\_001104277.1](#)

**RefSeq Size:** 2828 bp

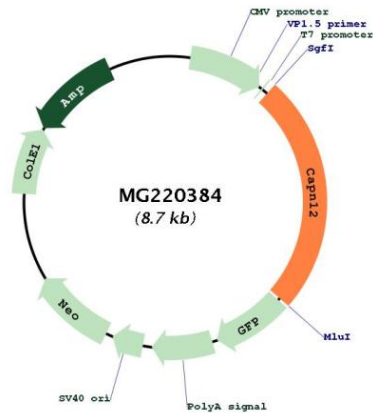
**RefSeq ORF:** 2163 bp

**Locus ID:** 60594

**Cytogenetics:** 7 B1

**Gene Summary:** Calcium-regulated non-lysosomal thiol-protease.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG220384