

## Product datasheet for **MG226219**

### Capn3 (NM\_001177799) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Capn3 (NM_001177799) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Capn3
Synonyms:	AI323605; Capa-3; Capa3; Lp82; p94
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG226219 representing NM\_001177799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCAACTGTTATTAGTCCAACGTGGCCCCAAGGACGGGGCTGAGCCAGGTCCCAGGGCCAGTTC  
 CTCACCCAGCTCAAGGCAAGACCACCGAGGCTGGAGGTGGACACCCAAGTGGCATCTATTCGGCCATCAT  
 TAGCCGCAATTTTCCGATCATCGGTGTAAAGAGAAGACATTTGAGCAGCTCCGACGGAAGTGCCTAGAG  
 AAGAAAGTTCTTTATCTAGACCCCGAGTCCCACCGGATGAGACCTCTCTTTTACAGTCAGAAGTTCC  
 CCATCCAGTTCGCTGGAAGAGACCTCCGAAAATTTGTGAGAATCCCGGTTTATCATTGGTGGAGCCAA  
 CAGGACTGACATCTGCCAAGGAGATCTAGGGGACTGCTGGTTTCTTGCAGCCATCGCTGCCTGACCCTG  
 AATGAGCGGCTGCTTTTCCGAGTTATACCCCATGATCAAAGTTTCACTGAAAACACGCAGGGATCTTCC  
 ACTTCCAGTTCGCGCTATGGAGACTGGGTAGATGTGGTCATTGACGACTGTCTGCCAACATACAACAA  
 TCAGCTGGTTTTACCAAATCCAACCACCGCAATGAGTTCTGGAGTGTCTCCTTGAGAAGGCTTATGCC  
 AAGCTCCATGGCTCCTATGAAGCTCTGAAAGGTGGGAATACCACAGAAGCCATGGAGGACTTCACAGGAG  
 GGGTGACAGAGTTTTTGTAGATCAAGGATGCTCCGAGTGACATGTACAAGATTATGAGGAAAGCTATCGA  
 GAGAGGCTCCCTCATGGGCTGCTCCATTGACACAATTGTTCCAGTGCAGTATGAAACAAGAAATGGCTGT  
 GGGTTGGTGAAAGGGCATGCCTATTCAGTCACTGGGCTGGAGGAGGCCCTGTTCAAAGGTGAGAAGGTGA  
 AGTTGGTGCGGCTGCGGAACCCCTGGGGCCAGGTGGAGTGAACGGCTCTTGGAGTATGGTTGGAAGGA  
 CTGGAGCTTTGTAGACAAAGATGAGAAGGCCCTACAGCACCAGGTTACTGAGGATGGAGAGTTCTGG  
 ATGTCCATATGATGACTTCGTCTACCATTTACGAAAGCTGGAGATCTGCAACCTCACAGCTGACGCCCTGG  
 AGTCCGATAAGCTTCAGACCTGGACGGTGTCTGTAACGAGGGCCGCTGGGTGAGGGGCTGTTCTGCTGG  
 AGGCTGCCGAAACTTCCCAGACACTTTCTGGACCAACCCGAGTACCGTCTCAAGCTTCTGGAGGAAGAC  
 GATGACCTGAGGACTCTGAGGTAATCTGCAGTTCCTCGTGGCTCTGATGCAGAAGAACCAGGCGCAAGG  
 ACCGGAAGCTGGGGGCCAACCTTCTCACTATTGGCTTCGCCATCTACGAGGTTCCCAAAGAGATGCACGG  
 GAATAAGCAACACCTGCAGAAGGACTTCTTCTGTACAACGCCTCCAAGGCCAGAAGCAAAACCTACATC  
 AACATGCGGGAGGTGCCAGCGCTTCCGCTGCCACCCAGCGAGTATGTCATCGTACCCTCCACCTACG  
 AGCCCCACCAGGAGGGGAATTCATCCTCCGAGTCTTCTCGAAAAGAGGAATCTCTGAGGAAGCTGA  
 AAATACAATCTCTGTGGATCGGCCAGTGCCAAGGCCTGGCCACACAGACCAGGAAAGTGAAGGAGCAGCAG  
 CAATTCGGAACATCTTCAGGCAGATCGCAGGCGACGACATGGAGATCTGTGCAGATGAACTCAAGAAATG  
 TCCTCAACACAGTGGTGAACAAACAAGGACCTGAAGACACAAGGGTTCACGCTGGAGTCTGCAGAAG  
 CATGATAGCTCTCATGGATACAGATGGCTCTGGAAGACTGAATCTTCAAGAGTTCATCACCTCTGGAAA  
 AAGATCAAGGCCTGGCAGAAAATCTTCAAGCACTATGACACAGACCATTCCGGTACCATCAATAGCTATG  
 AGATGCGAAATGCAGTCAATGATGCAGGCTTCCATCTCAACAGCCAACCTATGACATCATCACCATGCG  
 CTATGCGGACAAACACATGAACATCGACTTTGACAGCTTCATCTGCTGCTTGTGTCAGGCTGGAAGGGATG  
 TTCAGAGCTTTTAAACGATTTGACAAGGATGGCGATGGTATCATCAAACCTGAATGTACTTGAGTGGCTGC  
 AGCTTACCATGTATGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG226219 representing NM\_001177799  
 Red=Cloning site Green=Tags(s)

MPTVISPTVAPRTGAEPSPGPVPHPAQGKTTEAGGGHPSGIYSIAISRNFPIIGVKEKTFEQLRRKCLE  
 KKVLYLDPEFPDETSLFYSQKFP IQFVWKRPEICENPRFIIGGANRTDICQDGLGDCWFLAAIACLT  
 NERLLFRVIPHDQSFTENYAGIFHFQFWRYGDWVDVVIDDCLPTYNQLVFTKSNHRNEFWSALLEKAYA  
 KLHGSYEALKGGNTTEAMEDFTGGVTEFFEIKDAPSDMYKIMRKAIERGSLMGCSIDTIVPVQYETRMAC  
 GLVKGHAYSVTGLEEALFKGEKVKLVRLRNPWGQVEWNGSWSDGWKDSFVDKDEKARLQHQVTEDEGEFW  
 MSYDDFVYHFTKLEICNLTADALESDKLQWTWVSVNEGRWVRGCSAGGCRNFPDFTWNTNPQYRLKLEED  
 DDPEDSEVICSLVALMQNRRRDRKLGANLFTIGFAIYEVPKEMHGKQHLQKDFFLYNASKARSKTYI  
 NMREVSQRFLPPSEYIVPSTYEPHQEGEFLRVFSEKRNLSEEAEENTISVDRPVPRPGHTDQEESEQQ  
 QFRNIFRQIAGDDMEICADELKNVLTNVNKHKDLKTQGFLESCRSMIALMDTDGSGRLNLQEFHHLWK  
 KIKAWQKIFKHYPDTHSGTINSYEMRNAVNDAGFHLNSQLYDIITMRYADKHMNIDFDSFICCFVRLGEM  
 FRAFNAFDKDGDIKLVLEWLQLTMYA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001177799

**ORF Size:** 2187 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\\_001177799.1](#), [NP\\_001171270.1](#)

**RefSeq Size:** 2891 bp

**RefSeq ORF:** 2190 bp

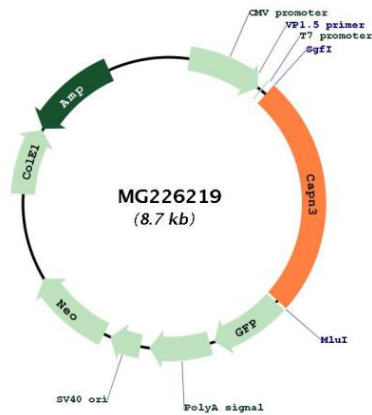
**Locus ID:** 12335

**UniProt ID:** [Q64691](#)

**Cytogenetics:** 2 60.31 cM

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

**Product images:**



Circular map for MG226219