

Product datasheet for **MC220707**

Capn3 (NM_001109761) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn3 (NM_001109761) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Capn3
Synonyms:	AI323605; Capa-3; Capa3; Lp82; p94
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220707 representing NM_001109761
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTACCTGCTGCCGGATTCTTCTGTGACAGGGTGATCCGAGAAAGGGACAGGAGAAATGGAGAGG
 GCACTGTCTCACAACTCTCAAGTTGAGGGCAGGATTTTGTCTTCTCAAACAACAGTGTCTGGCTCA
 GAAGTGCCTCTTTGAAGACCGTGTCTTCCAGCAGGTGTGACAGGCCCTTGCTCCATGAGCTGAGCCAG
 AAAGCCAAGATGAAGGCCATCACTTGAAGAGGCCAAAGGAAATTTGTGAGAATCCCGGTTTATCATTG
 GTGGAGCCAACAGGACTGACATCTGCCAAGGAGATCTAGGGGACTGCTGGTTTCTGACGCCATCGCCTG
 CCTGACCTGAATGAGCGGCTGCTTTCCGAGTTATACCCATGATCAAAGTTTCACTGAAAACACGCA
 GGGATCTCCACTCCAGTTCTGGCGCTATGGAGACTGGGTAGATGTGGTATTGACGACTGTCTGCCAA
 CATACAACATCAGCTGGTTTTCCACAAATCCAACCACCGCAATGAGTTCTGGAGTGTCTCCTTGAGAA
 GGCTTATGCCAAGCTCCATGGCTCCTATGAAGCTCTGAAAGGTGGGAATACCACAGAAGCCATGGAGGAC
 TTCACAGGAGGGGTGACAGAGTTTTTGTAGATCAAGGATGCTCCGAGTGACATGTACAAGATTATGAGGA
 AAGCTATCGAGAGAGGCTCCCTCATGGGCTGCTCCATTGACACAATTGTTCCAGTGCAGTATGAAAACAAG
 AATGGCCTGTGGGTTGGTGAAAGGGCATGCCTATTCACTCACTGGGCTGGAGGAGGCCCTGTTCAAAGGT
 GAGAAGGTGAAGTTGGTGCAGCTGCGGAACCCCTGGGGCCAGGTGGAGTGGAAACGGCTCTTGGAGTGATG
 GTTGAAGGACTGGAGCTTTGTAGACAAAGATGAGAAGGCCCGTCTACAGCACCAGGTTACTGAGGATGG
 AGAGTTCTGGATGTCATATGATGACTTCGTCTACCATTTACGAAGCTGGAGATCTGCAACCTCACAGCT
 GACGCCCTGGAGTCCGATAAGCTTCAGACCTGGACGGTGTCTGTAACGAGGGCCGCTGGGTGAGGGGCT
 TTTCTGCTGGAGGCTGCCGAAACTTCCAGACACTTTCTGGACCAACCCGAGTACCGTCTCAAGCTTCT
 GGAGGAAGACGATGACCCTGAGGACTCTGAGGTAATCTGCAGCTTCTCCTGGCTCTGATGCAGAAGAAC
 CGGCGCAAGGACCGAAGCTGGGGGCCAACCTTCTCACTATTGGCTTCGCCATCTACGAGGTTCCCAAAG
 AGATGCACGGAAATAAGCAACACCTGCAGAAGGACTTCTTCTGTACAACGCCTCCAAGGCCAGAAGCAA
 AACCTACATCAACATGCGGGAGGTGCCAGCGCTTCCGCTGCCACCCAGCGAGTATGTCATCGTACCC
 TCCACCTACGAGCCACCAGGAGGGGAATTCATCCTCCGAGTCTTCTCCGAAAAGAGGAATCTCTCTG
 AGGAAGCTGAAAATACAATCTCTGTGGATCGGCCAGTGCCAAGGCCTGGCCACACAGACCAGGAAAGTGA
 GGAGCAGCAGCAATCCGGAACATCTTCAGGCAGATCGCAGGCGACGACATGGAGATCTGTGAGATGAA
 CTAAGAATGTCCTCAACACAGTGGTGAACAAACAAGGACCTGAAGACACAAGGTTCCAGCTGGAGT
 CCTGCAGAAGCATGATAGCTCTCATGGATACAGATGGCTCTGGAAGACTGAATCTCAAGAGTCCATCA
 CCTCTGGAAGGATCAAGGCCTGGCAGAAAATCTTCAAGCACTATGACACAGACCATTCCGGTACCATC
 AATAGCTATGAGATGCGAAATGCAGTCAATGATGCAGGCTTCCATCTCAACAGCCAACTCTATGACATCA
 TCACCATGCGCTATGCGGACAAACATGAACATCGACTTTGACAGCTTCTGCTGCTTCTGTCAGGCT
 GGAAGGGATGTTCAAGCTTTTAAACGATTTGACAAGGATGGCGATGGTATCATCAAAGTGAATGTACTT
 GAGTGGCTGCAGCTTACCATGTATGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001109761
 Insert Size: 2130 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001109761.2](#), [NP_001103231.1](#)

RefSeq Size: 2624 bp

RefSeq ORF: 2130 bp

Locus ID: 12335

Cytogenetics: 2 60.31 cM

Gene Summary: Calcium-regulated non-lysosomal thiol-protease.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (b) has multiple differences, compared to variant a. The resulting protein (isoform b) is shorter and has a distinct N-terminus when it is compared to isoform a.