

## Product datasheet for **MR226221**

### Capn3 (NM\_007601) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Capn3 (NM_007601) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn3
Synonyms:	AI323605; Capa-3; Capa3; Lp82; p94
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MR226221 representing NM\_007601  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCAACTGTTATTAGTCCAACCTGTGGCCCCAAGGACGGGGCTGAGCCAGGTCCCAGGGCCAGTTC  
 CTCACCCAGCTCAAGGCAAGACCACCGAGGCTGGAGGTGGACACCCAAGTGGCATCTATTCGGCCATCAT  
 TAGCCGCAATTTTCCGATCATCGGTGTAAAGAGAAGACATTTGAGCAGCTCCGACGGAAGTGCCTAGAG  
 AAGAAAGTTCTTTATCTAGACCCCGAGTCCCACCGGATGAGACCTCTCTTTTTACAGTCAGAAGTTCC  
 CCATCCAGTTCGTCGGAAGAGACCTCCGAAAATTTGTGAGAATCCCGGTTTATCATTGGTGGAGCCAA  
 CAGGACTGACATCTGCCAAGGAGATCTAGGGGACTGCTGGTTTCTTGCAGCCATCGCTGCCTGACCCTG  
 AATGAGCGGCTGCTTTTCCGAGTTATACCCCATGATCAAAGTTTCACTGAAAACACGCAGGGATCTTCC  
 ACTTCCAGTTCGTCGCGCTATGGAGACTGGGTAGATGTGGTCATTGACGACTGTCTGCCAACATACAACA  
 TCAGCTGGTTTTACCAAATCCAACCACCGCAATGAGTTCGGAGTGTCTCCTTGAGAAGGCTTATGCC  
 AAGCTCCATGGCTCCTATGAAGCTCTGAAAGGTGGGAATACCACAGAAGCCATGGAGGACTTCACAGGAG  
 GGGTGACAGAGTTTTTTGAGATCAAGGATGCTCCGAGTGACATGTACAAGATTATGAGGAAAGCTATCGA  
 GAGAGGCTCCCTCATGGGCTGCTCCATTGACGATGGCAGCAACATGACTTATGGAACCTCTCCTTCTGGT  
 CTGAACATGGGGGAGTTGATTGCACGGATGGTGAGAAATATGGATAACTCGCTGCTCAGAGACTCAGACC  
 TGGACCCAGGGGCTCAGATGACAGACCGTCACGGACAATTGTTCCAGTGCAGTATGAAACAAGAATGGC  
 CTGTGGTTGGTAAAGGGCATGCCTATTCAGTCACTGGGCTGGAGGAGGCCCTGTTCAAAGGTGAGAAG  
 GTGAAGTTGGTGGCTCGGAAACCCCTGGGGCCAGGTGGAGTGGAAACGGCTCTTGAGTGTATGGTTGGA  
 AGGACTGGAGCTTTGTAGACAAAAGATGAGAAGGCCCGTCTACAGCACAGGTTACTGAGATGGAGAGTT  
 CTGGATGTCATATGATGACTTCGTCACCATTTACGAAGCTGGAGATCTGCAACCTCACAGCTGACGCC  
 CTGGAGTCCGATAAGCTTCAGACCTGGACGGTGTCTGTAACGAGGGCCGCTGGGTGAGGGGCTGTTCTG  
 CTGGAGGCTGCCGAAACTTCCCAGACACTTTCTGGACCAACCCGAGTACCGTCTCAAGCTTCTGGAGGA  
 AGACGATGACCCTGAGGACTCTGAGGTAATCTGCAGCTTCTCGTGGCTCTGATGCAGAAGAACCGCGC  
 AAGGACCGGAAGCTGGGGCCAACCTCTTCACTATTGGCTTCGCCATCTACGAGGTTCCCAAAGAGATGC  
 ACGGGAATAAGCAACACCTGCAGAAGGACTTCTTCTGTACAACGCTCCAAGGCCAGAAGCAAAACCTA  
 CATCAACATGCGGAGGTGTCCCAGCGCTTCCGCCTGCCACCCAGCGAGTATGTCATCGTACCCTCCACC  
 TACGAGCCCCACCAGGAGGGGAATTCATCCTCCGAGTCTTCTCGAAAAGAGGAATCTCTCTGAGGAAG  
 CTGAAAATACAATCTCTGTGGATCGGCCAGTGA AAAAGAAAAAAAACAAGCCCATCATCTTCGTTTTCTGA  
 CAGAGCAAACAGCAACAAGGAGCTGGGTGTGGACCAGGAGGCAGAGGAGGGCAAAGACAAAGCAGGGCCC  
 GAGAAACGAGGGGAAACCCACAGCCAAGGCTGGCCACACAGACCAGGAAAGTGAGGAGCAGCAGCAAT  
 TCCGGAACATCTTCAGGCAGATCGCAGGCGACGACATGGAGATCTGTGCAGATGAACTCAAGAATGTCT  
 CAACACAGTGGTGAACAAACACAAGGACCTGAAGACACAAGGGTTCACGCTGGAGTCTGCAGAAGCATG  
 ATAGCTCTCATGGATACAGATGGCTCTGGAAGACTGAATCTTCAAGAGTCCATCACCTTGAAAAAGA  
 TCAAGGCTGGCAGAAAATCTTCAAGCACTATGACACAGACCATTCCGGTACCATCAATAGCTATGAGAT  
 GCGAAATGCAGTCAATGATGCAGGCTTCCATCTCAACAGCCAACCTATGACATCATCCATGCGCTAT  
 GCGGACAAACACATGAACATCGACTTTGACAGTTTCTGCTGCTTCGTCAGGCTGGAAGGGATGTTCA  
 GAGCTTTTAACGCATTTGACAAGGATGGCGATGGTATCATCAAACCTGAATGTAAGTACTTGAGTGGCTGCAGCT  
 TACCATGTATGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226221 representing NM\_007601  
Red=Cloning site Green=Tags(s)

MPTVISPTVAPRTGAEPSPGPVPHPAQGKTTEAGGGHPSGIYSAIISRNFPIIGVKEKTFEQLRRKCLE  
KKVLYLDPEFPPDETSLFYSQKFPFIQFVWKRPEICENPRFIIGGANRTDICQDLDGDCWFLAAIACLT  
NERLLFRVIPHDQSFTENYAGIFHFQFWRYGDWVDVVIDDCLPTYNNQLVFTKSNHRNEFWSALLEKAYA  
KLHGSEALKGGNTTEAMEDFTGGVTEFFEIKDAPSDMYKIMRKAIERGSLMGCSIDGNTNMTYGTSPSG  
LNMGELIARMVRNMDNSLLRDSLDPRGSDDRPRTIIVPVQYETRMACGLVKGHAYSVTGLEEALFKGEK  
VKLVRLRNPWGQVEWNGSWSDGWKDSFVDKDEKARLQHQVTEDEGEFWSYDDFVYHFTKLEICNLTADA  
LESCLKQTWTVSVNEGRWVRGCSAGGCRNFPDTFWTNPQYRLKLEEDDDPEDSEVICSFVALMQNRR  
KDRKLGANLFTIGFAIYEVPKEMHGKQHLQKDFFLYNASKARSKTYINMREVSQRFRLPSEYVIVPST  
YEPHQEGEFILRVFSEKRNLSEEAENTISVDRPVKKNKPIIFVSDRANSKELGVDQEAEEGKDKAGP  
EKRGETPQPRPGHTDQESSEQQFRNIFRQIAGDDMEICADELKNVLTNVNKHKDLKTQGFLESCRSM  
IALMDTDGSGRLNLQEFHHLWKKIKAWQKIFKHVDTDHSGTINSYEMRNAVNDAGFHLNSQLYDIITMRY  
ADKHMNIDFDSFICCFVRLGEMFRAFNAFDKDGDIKLNVLWLQLTMYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9094\\_c02.zip](https://cdn.origene.com/chromatograms/mm9094_c02.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_007601

ORF Size: 2463 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\\_007601.3](#), [NP\\_031627.2](#)

**RefSeq Size:** 3167 bp

**RefSeq ORF:** 2466 bp

**Locus ID:** 12335

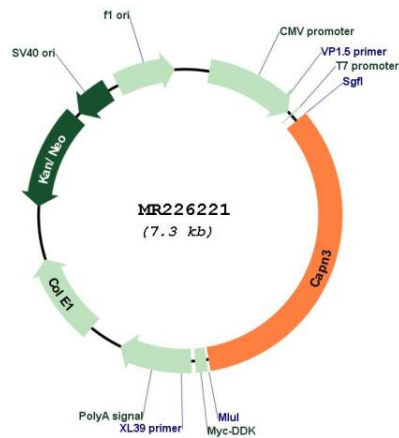
**UniProt ID:** [Q64691](#)

**Cytogenetics:** 2 60.31 cM

**MW:** 94.2 kDa

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

**Product images:**



Circular map for MR226221