

Product datasheet for **MR226222**

Capn3 (NM_001109761) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>MR226222 representing NM_001109761
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCTACCTGCTGCCGGATTCTTCTGTGACAGGGTGATCCGAGAAAGGGACAGGAGAAATGGAGAGG
 GCACTGTCTCACAACTCTCAAGTTTGGGGGCAGGATTTTGTCTTCTCAAACAACAGTGTCTGGCTCA
 GAAGTGCCTCTTTGAAGACCGTGTCTTCCAGCAGGTGTGACAGGCCCTTGCTCCATGAGCTGAGCCAG
 AAAGCCAAGATGAAGGCCATCACTTGAAGAGGCCAAAGGAAATTTGTGAGAATCCCGGTTTATCATTG
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 AAGCTATCGAGAGAGGCTCCCTCATGGGCTGCTCCATTGACACAATTGTTCCAGTGCAGTATGAAAACAAG
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 TCACCATGCGCTATGCGGACAAACATGAACATCGACTTTGACAGCTTCATCTGCTGCTTCTGTCAGGCT
 GGAAGGGATGTTGAGGCTTTTAAACGCATTTGACAAGGATGGCGATGGTATCATCAAAGTGAATGTACTT
 GAGTGGCTGCAGCTTACCATGTATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226222 representing NM_001109761
 Red=Cloning site Green=Tags(s)

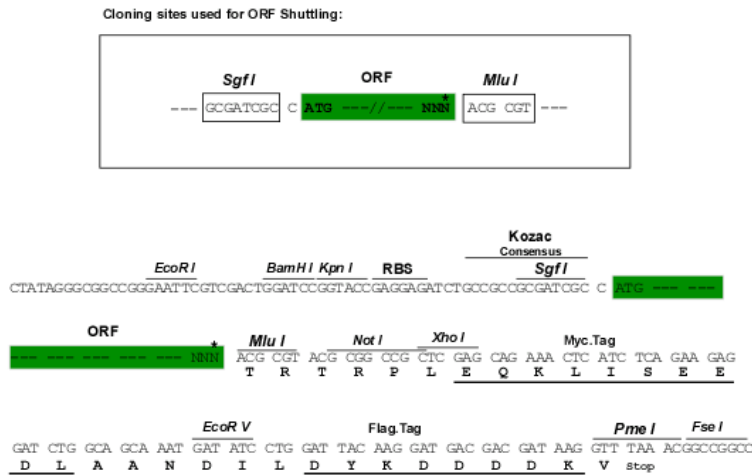
MPYLLPGFFCDRVIRERDRRNGEGTVSQPLKFEGQDFVVLKQQCLAQKCLFEDRVFPAGVQALGSHEL SQ
 KAKMKAITWKRPKKEICENPRFIIIGGANRTDICQDLDGDCWFLAAIACLTLNERLLFRVIPHDQSFTENYA
 GIFHFQFWRYGDWVDVVIDDCLPTYNNQLVFTKSNHRNEFWSSALLEKAYAKLHGSYEALKGGNTTEAMED
 FTGGVTEFFFEIKDAPSDMYKIMRKAIERGSLMGCSIDTIVPVQYETRMACGLVKGHAYSVTGLEEALFKG
 EKVKLVRLRNPWGQVEWNGSWSDGWKDSFVVKDEKARLQHQTEDGEFWMSYDDFVYHFTKLEICNLTA
 DALESCLKQTWTVSYNEGRWVRGCSAGGCRNFPDTFWTNPQYRLKLEEDDDPEDSEVICSFVALMQKN
 RRKDRKLGANLFTIGFAIYEVPKEMHGKQHLKQDFFLYNASKARSKTYINMREVSQRFRLPPSEYVIVP
 STYEPHQEGEFILRVFSEKRNLSSEAENTISVDRPVPRPGHTDQESEEQQQFRNIFRQIAGDMEICADE
 LKNVLTNVVNHKDLKTQGFLESCRSMIALMDTDGSGRLNLQEFHLLWKKIKAWQKIFKHVDTHSGTI
 NSYEMRNAVNDAGFHLNSQLYDIITMRYADKHMNIDFDSFICCFVRLGEMFRAFNAFDKDGDIKLNVL
 EWLQLTMYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

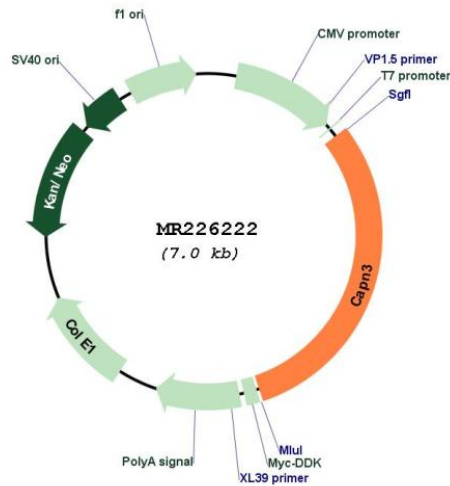
Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001109761

ORF Size: 2127 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](#)

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

RefSeq Size: 2624 bp

RefSeq ORF: 2130 bp

Locus ID: 12335

Cytogenetics: 2 60.31 cM

MW: 82.7 kDa

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