

Product datasheet for **MG226222**

Capn3 (NM_001109761) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn3 (NM_001109761) 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:

>MG226222 representing NM_001109761
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCTACCTGCTGCCGGATTCTTCTGTGACAGGGTGATCCGAGAAAGGGACAGGAGAAATGGAGAGG
 GCACTGTCTCACAACTCTCAAGTTTGAGGGGCAGGATTTTGTCTTCTCAAACAACAGTGTCTGGCTCA
 GAAGTGCCTCTTTGAAGACCGTGTCTTCCAGCAGGTGTGACAGGCCCTTGCTCCCATGAGCTGAGCCAG
 AAAGCCAAGATGAAGGCCATCACTTGAAGAGGCCAAAGGAAATTTGTGAGAATCCCGGTTTATCATTG
 GTGGAGCCAACAGGACTGACATCTGCCAAGGAGATCTAGGGGACTGCTGGTTTCTTGACGCCATCGCCTG
 CCTGACCTGAATGAGCGGCTGCTTTTCCGAGTTATACCCATGATCAAAGTTTCACTGAAAACACGCA
 GGGATCTTCCACTCCAGTTCTGGCGCTATGGAGACTGGGTAGATGTGGTCATTGACGACTGTCTGCCAA
 CATACAACATCAGCTGGTTTTTACCAAATCCAACCACCGCAATGAGTTCTGGAGTGCTCTCCTTGAGAA
 GGCTTATGCCAAGCTCCATGGCTCCTATGAAGCTCTGAAAGGTGGGAATACCACAGAAGCCATGGAGGAC
 TTCACAGGAGGGGTGACAGAGTTTTTTGAGATCAAGGATGCTCCGAGTGACATGTACAAGATTATAGGGA
 AAGCTATCGAGAGAGGCTCCCTCATGGGCTGCTCCATTGACACAATTGTTCCAGTGCAGTATGAAAACAAG
 AATGGCCTGTGGGTTGGTGAAGGGCATGCCTATTCAGTCACTGGGCTGGAGGAGGCCCTGTTCAAAGGT
 GAGAAGGTGAAGTTGGTGCAGGCTGCGGAACCCCTGGGGCCAGGTGGAGTGAACGGCTCTTGAGGTGATG
 GTTGAAGGACTGGAGCTTTGTAGACAAAGATGAGAAGGCCCGTCTACAGCACCAGGTTACTGAGGATGG
 AGAGTTCTGGATGTCATATGATGACTTCGTCTACCATTTACGAAGCTGGAGATCTGCAACCTCACAGCT
 GACGCCCTGGAGTCCGATAAGCTTCAGACCTGGACGGTGTCTGTAACGAGGGCCGCTGGGTGAGGGGCT
 TTTCTGCTGGAGGCTGCCGAACTTCCAGACACTTTCTGGACCAACCCGAGTACCGTCTCAAGCTTCT
 GGAGGAAGACGATGACCCTGAGGACTCTGAGGTAATCTGCAGCTTCCCTCGTGGCTCTGATGCAGAAGAAC
 CGGCGCAAGGACCGAAGCTGGGGGCCAACCTTCTCACTATTGGCTTCGCCATCTACGAGGTTCCCAAAG
 AGATGCACGGGAATAAGCAACACCTGCAGAAGGACTTCTTCTTGTACAACGCCTCCAAGGCCAGAAGCAA
 AACCTACATCAACATGCGGGAGGTGTCCAGCGCTTCCGCTGCCACCCAGCGAGTATGTCATCGTACCC
 TCCACCTACGAGCCCCACCAGGAGGGGAATTCATCCTCCGAGTCTTCTCCGAAAAGAGGAATCTCTCTG
 AGGAAGCTGAAAATACAATCTCTGTGGATCGGCCAGTGCCAAGGCCTGGCCACACAGACCAGGAAAGTGA
 GGAGCAGCAGCAATCCGGAACATCTTCAGGCAGATCGCAGGCGACGACATGGAGATCTGTGCAGATGAA
 CTAAGAATGTCCTCAACACAGTGGTGAACAAACAAGGACCTGAAGACACAAGGTTCCAGCTGGAGT
 CCTGCAGAAGCATGATAGCTCTCATGGATACAGATGGCTCTGGAAGACTGAATCTTCAAGAGTCCATCA
 CCTCTGAAAAAGATCAAGGCCTGGCAGAAAATCTTCAAGCACTATGACACAGACCATTCCGGTACCATC
 AATAGCTATGAGATGCGAAATGCAGTCAATGATGCAGGCTTCCATCTCAACAGCCAACTCTATGACATCA
 TCACCATGCGCTATGCGGACAAACACATGAACATCGACTTTGACAGCTTCATCTGCTGCTTCGTCAGGCT
 GGAAGGGATGTTACAGCTTTTAACGCATTTGACAAGGATGGCGATGGTATCATCAAACCTGAATGTACTT
 GAGTGGCTGCAGCTTACCATGTATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226222 representing NM_001109761
 Red=Cloning site Green=Tags(s)

MPYLLPGFFCDRVIRERDRRNGEGTVSQPLKFEGQDFVVLKQQCLAQKCLFEDRVFPAGVQALGSHEL SQ
 KAKMKAITWKRPEICENPRFIIIGGANRTDICQGDLDGCWFLAAIACLTLNERLLFRVIPHDQSFTENYA
 GIFHFQFWRYGDWVDVDDCLPTYNNQLVFTKSNHRNEFWSALLEKAYAKLHGSYEALKGGNTTEAMED
 FTGGVTEFFFEIKDAPSDMYKIMRKAIERGSLMGCSIDTIVPVQYETRMACGLVKGHAYSVTGLEEALFKG
 EKVKLVRLRNPWGQVEWNGSWSGDWSDWDFVVKDEKARLQHQVTEDEGEFWMYDDDFVYHFTKLEICNLTA
 DALESCLKQTWTVSVNEGRWVRGCSAGGCRNFPDFTWTPQYRLKLEEDDDPEDSEVICSFVALMQKN
 RRKDRKLGANLFTIGFAIYEVPKEMHGKQHLQKDFFLYNASKARSKTYINMREVSQRFRLPPSEYVIVP
 STYEPHQEGEFILRVFSEKRNLSSEAENTISVDRPVPRPGHTDQESEEQQQFRNIFRQIAGDDMEICADE
 LKNVLTNVNKHKDLKTQGFLESCRSMIALMDTDGSGRLNLQEFHHLWKKIKAWQKIFKHYYDTHSGTI
 NSYEMRNAVNDAGFHLNSQLYDIITMRYADKHMNIDFDSFICCFVRLGEMFRAFNAFDKDGDIKLNVL
 EWLQLTMYA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

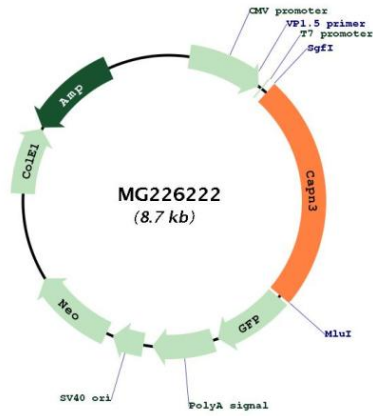


ACCN: NM_001109761

ORF Size: 2127 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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]

Product images:



Circular map for MG226222