

Product datasheet for **MG207169**

Capn12 (NM_021894) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn12 (NM_021894) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Capn12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG207169 representing NM_021894 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCGAGTGGCAACAGGAAGGTCACCATCCAGCTGGTGGACGACGGGGCCGGGACTGGAGCTGGGGGCC
CACAGCTCTTTAAAGGCCAGAACTACGAAGCCATCCGAAGAGCTTGCCTGGATCCGGGATCCTGTTTCG
TGACCCCTTGCTTTCCTGCTGGCCCTGATGCCCTGGCTATGACAAGCTGGGACCTGACTCAGAGAAGGCC
AAAGGGGTGGAATGGAAGAGGCCCATGAGTTTGTGCTGAGCCCCAGTTCATCTGTGAAGACATGAGCA
GAACAGATGTGTCCAGGGAAGCTTGGGAACTGCTGGCTTCTTGACGCTGCTGCCTCCCTCACACTCTA
CCCCAGGCTCCTGTACCGGGTGGTCCCCCTGGACAAGGTTTCCAAGATGGCTACGCGGGGGTCTTCCAT
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AGCTGATGTTTCGTGCGCTCAGAACAAAGGAACGAGTTCTGGGCCCTCTGCTGGAAAAGGCCTATGCCAA
GCTCCATGGTCCCTACGAGGTAATGCGAGGAGTACATGAACGAGGCTTTTGTGGACTTACAGGAGGC
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AGGAGTCCCTTGTGGTGTACTGCCCTGAGTATCGGGGTGAGATCCGCACAGATGAAGGGCTGGTGAA
GGGACATGCTTATTCTGTACAGGCACGACAAGATGTCTCTGGGCTTACCAAGGTGCGGCTGCTGCGG
CTGAGGAACCCCTGGGGCCGCTGGAGTGGTCCGGGCCCTGGAGTGACAGCTGCCACGCTGGGACATGC
TCCTTCTGAGTGGCGAGATGCCCTGCTTGTGAAAAGGAGGATGGCGAGTCTGGATGGAGCTTCAAGA
CTTTCTACGCACCTTCAACACAGTGCAGATTTGTTCACTGCTGCCAACACCTGGATGGCGCGGAGGGGGT
CGTCTGCCTGACCCACAAACAGTGGTGGAGGTGGCTACCTTCTCATAGGTTTGAAGCTGAGGGAGGTCA
CCCTGCTGCCGACTCACTGTACAAAGGTGGTGGCTATGTAACCCTGGCCGGCCTCACAAGTGCTGGGA
TTACGAGCTGGAGCCATCCCAAACAAGTGCACCCCTTCTTTGAAGCCTTCTCATGTGAGTCCCTGC
TTAGAGAGGGGCACAACCCACACAGGCACTGGGCTGGTGGGCACTGCCAGTCTCTTGGGCATGAACA
GAGATGCAGGGAGAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG207169 representing NM_021894
 Red=Cloning site Green=Tags(s)

MASGNRKVTIQLVDDGAGTGAGGPQLFKGQNYEAIIRRACLDSGILFRDPCFPAGPDALGYDKLGPDSEKA
 KGVEWKRPHEFCAEPQFICEDMSRTDVCQGS LGNCWLLAAAASL TLYPRLLYRVVPPGQGFQDGYAGVFH
 FQLWQFGRWVDVVDDKLPVREGKLMFVRSEQRNEFWAPLLEKAYAKLHGSYEVMRGGHMNEAFVDF TGG
 VGEVLYLRQNTPGVFAALRHALAKESLVGATALSDRGEIRTDEGLVKGHAYSVTGTHKMSLGFTKVRLLR
 LRNPWGRVEWSGPWSDSCPRWMLPSEWRDALLVKKEDGEFWMELQDFLTHFNTVQICSLLP TPGWRRGG
 RLPDPQTVVGGGYLLIGLKLREVTLLPDSL SQRWWLCNPGRPHKCWDYELEPSQTELPFLLKPLHVSPC
 LERGTTP TQALGW WALPAPWGMNRDAGR R

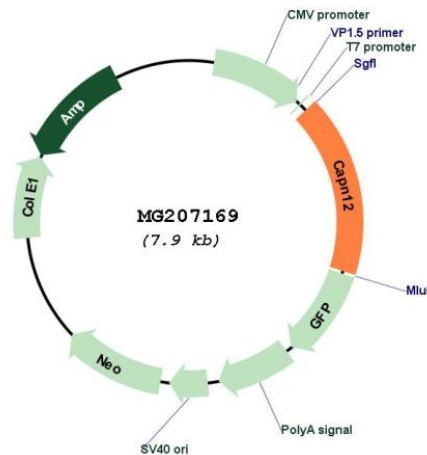
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_021894
ORF Size:	1347 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:	<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_021894.1 , NP_068694.1
RefSeq Size:	1794 bp
RefSeq ORF:	1349 bp
Locus ID:	60594
Cytogenetics:	7 B1
Gene Summary:	Calcium-regulated non-lysosomal thiol-protease.[UniProtKB/Swiss-Prot Function]