

## Product datasheet for **MG226929**

### Capn8 (NM\_001145806) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Capn8 (NM\_001145806) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Capn8  
**Synonyms:** nCL-2; nCL-2'  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG226929 representing NM\_001145806  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGCCCTGGCAGCTGGAATATCCAAGCAACGTGCAGCTGCTCAGGGCCTTGGCTCTAACCAGAATG  
 CTGTGAAGTATCTGGCCAGGACTTCGAGACCCTGAGAAAGCAATGCTTGAACCTCAGGGTCTATTTAA  
 AGACCCGGAATCCCGGCATGTCCGTGAGCTTTGGGCTACAGGGATCTGGACCAGGCTCTGCAGAACT  
 CAAGGCATCATATGGAAGCGACCCACGGAATTGTGTTCCAACCCCTCAGTTTATCGTTGGTGGAGCCACAC  
 GCACAGACATCCGCCAGGGGGTCTTGGAGACTGTTGGCTTCTGGCAGCCATTGCCTCCCTCACCTTGAA  
 TGAAGCTGCTTTATCGAGTGGTTCCTAGAGACCAGAGCTTCCAGAAGAACTATGCTGGCATTTTTCAT  
 TTCCAGTTCTGGCAGTATGGAGAGTGGGTGGAGGTGGTCAATTGATGACCGGCTCCCCACCAAGAATGGAC  
 AGCTGCTCTTCTACACTCCGAAGAAGGCAATGAGTTCTGGAGTCTGCTGGAGAAAGCCTATGCCAA  
 GCTCAATGGTTCGTATGAGGCTCTTGGTGGAGGCTCCACAATTGAGGGGTTTGGAGATTTACGGGTGGC  
 ATCTCTGAGTTTATGACTTGAGGAAGCCTCCGGGCAATCTGACTACACCATCCAGAAGGCCCTGCGCA  
 AAGGCTCTCTGCTGGGCTGCTCCATTGATGTCTCAAACGCAGCCGAAGCAGAAGCCACCACAGGCAAAA  
 GCTGGTTAAGGGCCACGCATACTCTGTGACTGGAGTGAAGTGGAGTGGACGGGAGCCTGGAGTGATGACACCTGAT  
 CTGATCAGTTGAGGAACCCGTGGGTGAAGTGGAGTGGACGGGAGCCTGGAGTGATGACACCTGAT  
 GGAATTACATAGATCCACAGAAGAAGGGAGAAGTGGACAAGAGAGCAGAAGATGGGGAGTTCTGGATGTC  
 CTTTTCGATTTCTTGAAGCAGTTCTCCGACTAGAGATATGCAACCTGTCCCCAGACTCTCTGAGCAGT  
 GAGGAGATACACAAATGGAACCTGGTACTTTCAACGGCCGCTGGACACGGGGTTCTACAGCCGGGGCT  
 GCCAGAACTACCCAGGCTCCTTC

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226929 representing NM\_001145806  
 Red=Cloning site Green=Tags(s)

MAALAAGISKQRAAAQGLGSNQNAVKYLQDFETLRKQCLNSGVLFKDPEFPACPSALGYRDLGPGSAET  
 QGIWKRPTELCSNPQFIVGGATRTDIRQGGLGDCWLLAAIASLTLNEKLLYRVVPRDQSFQKNYAGIFH  
 FQFWQYGEWVEVVIDDRLPTKNGQLFLHSEEGNEFWALSALLEKAYAKLNGSYEALAGGSTIEGFEDFTGG  
 ISEFYDLRKPPGNLYYTIQKALRKGSLLGCSIDVSNAEAEATTRQKLVKGHAYSVTGVVEVDFRGLPEK  
 LIRLRNPWGEVEWTGAWSDSAPEWNYIDPQKKGELDKRAEDGEFWMFSDFLQFSRLEICNLSPDSLSS  
 EEIHKWNLVLFNGRWTRGSTAGGCQNYPGSF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001145806

**ORF Size:** 1143 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\\_001145806.1](#), [NP\\_001139278.1](#)

**RefSeq Size:** 2483 bp

**RefSeq ORF:** 1146 bp

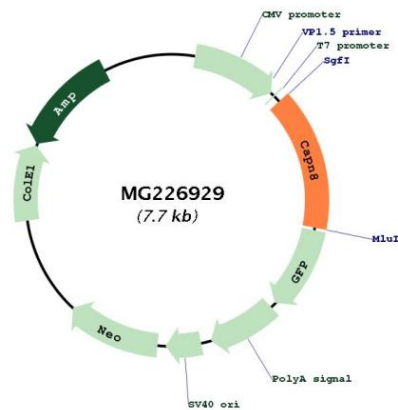
**Locus ID:** 170725

**UniProt ID:** [Q91VA3](#)

**Cytogenetics:** 1 H5

**Gene Summary:** Calcium-regulated non-lysosomal thiol-protease (By similarity). Involved in membrane trafficking in the gastric surface mucus cells (pit cells) and may involve the membrane trafficking of mucus cells via interactions with coat protein. Proteolytically cleaves the beta-subunit of coatomer complex.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG226929