

Product datasheet for **MR226927**

Capn8 (NM_130890) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn8 (NM_130890) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn8
Synonyms:	nCL-2; nCL-2'
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR226927 representing NM_130890
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCAGCCCTGGCAGCTGGAATATCCAAGCAACGTGCAGCTGCTCAGGGCCTTGCTCTAACCAGAATG
 CTGTGAAGTATCTGGGCCAGGACTTCGAGACCCTGAGAAAGCAATGCTTGAACCTCAGGGGTCTATTAA
 AGACCCGGAATCCCGCATGTCCGTCACTTTGGGCTACAGGGATCTTGACCAAGGCTCTGCAGAACT
 CAAGGCATCATATGGAAGCGACCCACGGAATTGTGTTCCAACCTCAGTTTATCGTTGGTGGAGCCACAC
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 CTTTTCGGATTTCTTGAAGCAGTTCTCCGACTAGAGATATGCAACCTGTCCCAGACTCTCTGAGCAGT
 GAGGAGATACACAAATGGAACCTGGTACTCTTCAACGGCCGCTGGACACGGGGTTCTACAGCCGGGGCT
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 GCACTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
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Protein Sequence: >MR226927 representing NM_130890
 Red=Cloning site Green=Tags(s)

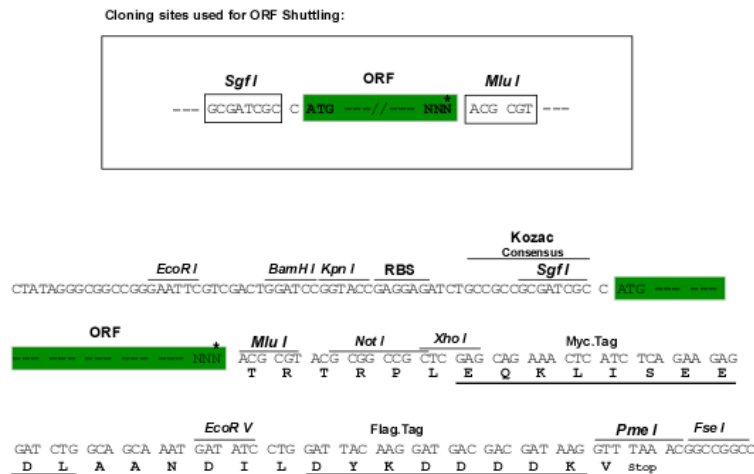
MAALAAGISKQRAAAQGLGSNQNAVKYLGQDFETLRKQCLNSGVLFKDPEFPACPSALGYRDLGPGSAET
 QGIWKRPTLCSNPQFIVGGATRTDIRQGGLGDCWLLAAIASLTLNEKLLYRVVPRDQSFQKNYAGIFH
 FQFWQYGEWVEVVIDDLPTKNGQLFLHSEEGNEFWSSALLEKAYAKLNGSYEALAGGSTIEGFEDFTGG
 ISEFYDLRKPPGNLYYTIQKALRKGSLLGCSIDVSNAEAEATTRQKLKKGHAYSVTGVEEVDFRGLPEK
 LIRLRNPWGEVETGAWSDSAPEWNYIDPQKKGELDKRAEDGEFWSFSDFLKQFSRLEICNLSPDSLSS
 EEIHKWNLVLFNGRWTRGSTAGGCQNPATYWTNPQFKIHLDEVDEDQEEGTSEPCTVLLGLMQKNRRR
 QRRIGQGMLSIGYAVYQIPKELENHTDEHLGRDFFQGRQPSTCSSTYMNLREVSSRVQLPPGQYLVPST
 FEPFKDGFCLRVFSEKKAQALEIGDAVAGDPHEPHPRMDGEDEHFWSLSEEFADKDSEISAHQLKRVL
 NGLLSKRTDMKFDGFNINTCREMISLLDGDGTGSLRPVEFKTLWLKICKYLEIYQEMDHSRAGTIDAHEM
 RTALKKAGFTLNNQVQQTATRYACSKLGVDFGVACMIRLEILFKLFRLLDKDQNGIVQLSLAEWLCC
 ALV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9097_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_130890

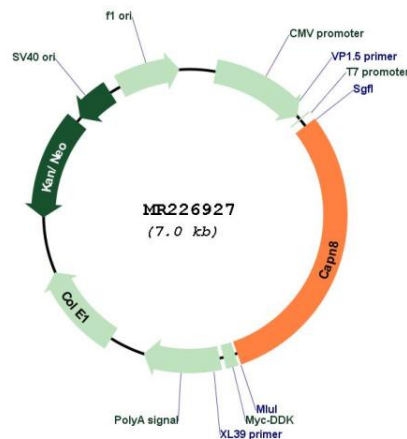
ORF Size: 2109 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_130890.2, NP_570960.2</u>
RefSeq Size:	2411 bp
RefSeq ORF:	2112 bp
Locus ID:	170725
UniProt ID:	<u>Q91VA3</u>
Cytogenetics:	1 H5
MW:	79.3 kDa
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 MR226927