

Product datasheet for **MR225089**

Capn1l (NM_001013767) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Capn1l
Synonyms:	calpain, protease
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR225089 representing NM_001013767
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGAAGTACTCAGACATCTCTGGGCTGAAAAAGGAATGGTGGCTACCATAAACCACTCCAGGCTCA
 AGGACAAGGGCGTGGGCCAACCAAAATGCCTACAACATATAAGAATCAGAACTATGAGGACCTTCGAGC
 AGAGTGTCTCAGGAAGGGGAACTGTTCAAGACCCCTTTTCCCTGCTGAACCCAGGTCTATCGGTGTC
 AAGAACCTGGGCCCACTCTGAACACATGCAGAATATCTACTGGCAGCGGCCAAAGGATATCATTGATA
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 CCTGGCTGCCATTGGCTCCCTTACCACCTGCCCAAACCTGCTGTACCGTGTGGTGCCAGAAATCAGAGC
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 GATGTCTACTACAGAGACAAGTTGAACTCTAATTCGGATCCAAATCCTTGGGGTGGGTTGAATGGA
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 CAAGAAGGATGATGGCATTTCTGGATGTCCTATGAAGACTTCATGAGCAACTTTACACTGCTGGAGATC
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 TGCTTGGATATTAACCACTGGCTGCAATAACCATGTGGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225089 representing NM_001013767

Red=Cloning site Green=Tags(s)

MLNYSDISWAEKGMVATINHSRLKDKGVGQHQNAYNYKNQNYEDLRAECLRKGELEFDPFFPAEPRSIGV
KNLGPNSEHMQNIYWQRPKDIHNPQFITNDFSPTDICQGILGDCWLLAAIGSLTTCPKLLYRVVPRNQS
FKKNYAGIFHFQLWQFGHWNVVVDDRLPTRNNKL VVHASHRQDFWSALLEKAYAKLIGSYGALSGGST
LEGLEDFTGGVAQCIPLQKPPGNMLRLKKALEKSSLMGCSIEVTDNSEVETMTHNMLVRGHAYAVTGLE
DVYYRDKLETIRIQNPWGRVEWNGAWSKATEWEEVSPDVRVQLLHKDDGDFWMSYEDFMSNFTLLEI
CNLTPDALNTWDYKSRWHSTFYEGSWRRGSTAGGCRNHPETFWSNPQFKISLPEVDDPEDDSEKNEMVCT
CLVALMQKNWRHAREGPQLLTIGFVIFVSPKEFQNLRLDIHLKKDFFLKRYRDHGFSEIFINSREVNHLRL
PPGEYVIIPSTYEPHKDADFLLRVFTEKHSETWLLDDANRFEHLQEETVTDKDLKDSLQLFKIMANEDG
EVDMYALHKLNRMTAKLRNFKTKGFSLEVCRRMINLLDKDGSGLLELHEFQVLWKKIKKWTEIFKECDE
DRSGNLNSYEMRLAIEKAGIKMNNRVTEVVARYSDNMI VDFDSFLNCFRLKAMFAFFLSMDTKKTGSI
CLDINQWLQITMWG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

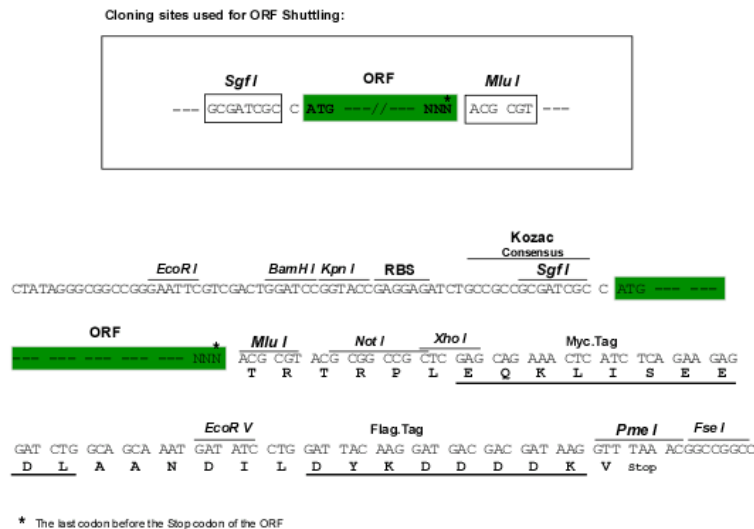
Chromatograms:

https://cdn.origene.com/chromatograms/mm9099_f07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001013767

ORF Size:

2142 bp

OTI Disclaimer:

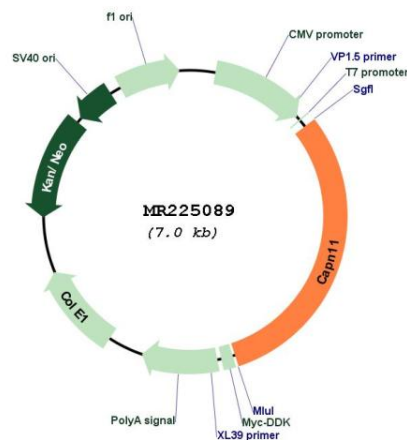
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	NM_001013767.2 , NP_001013789.1
RefSeq Size:	2575 bp
RefSeq ORF:	2145 bp
Locus ID:	268958
UniProt ID:	Q6J756
Cytogenetics:	17 C
MW:	83 kDa
Gene Summary:	Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225089