

Product datasheet for **MR222250**

Capn1 (NM_001110504) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn1 (NM_001110504) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn1
Synonyms:	Capa-1; Capa1; mu-calpin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR222250 representing NM_001110504
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACAGAGGAGTTAATCACCCCTGTGTACTGCACCGGGGTGTCAGCCCAAGTACAGAAGAAGCGGGACA
AGGAGCTGGGCTTGGGCCGCCATGAAAACGCCATCAAGTACCTGGGCCAGGATTATGAAAACGCTTCGGGC
AAGATGCCTGCAGAGTGGGGTCCTCTTCCAAGACGAGGCCTTCCCTCCGGTTTTCATAGCCTGGGCTTC
AAGAACTGGGTCTCATTCTCTAAAACCTATGGCATCAAATGGAAGCGGCCTACGGAAGTATGTCAA
ACCCCCAGTTCATCGTGGATGGAGCCACCCGGACAGACATCTGCCAGGGAGCACTGGGGACTGTTGGCT
CCTGGCTGCCATTGCCTCCCTCACCTCAACGAGACTATTCTGCACCGAGTGGTTCCTACGGCCAGAGC
TTTCAGGATGGCTACGCTGGCATCTTTCAATTCAGCTGTGGCAGTTCGGGGAGTGGGTCGACGTGGTCA
TAGATGACTTGTGCCACCAAGGACGGGAAGCTGGTGTTCGTGCACTCTGCCAGGGCAACGAATTCGT
GAGCGCACTGCTGGAGAAAGCCTATGCTAAAGTGAATGGCAGCTATGAGGCTCTTTCGGGAGGCTGCACC
TCAGAGGCCTTCGAGGACTTTACCGGTGGGGTCACTGAGTGGTACGACCTGCAGAAGGCCCCAGCGACC
TCTACCAGATCATTCTAAAGGCCCTGGAACGAGGCTCCTTGTGGGCTGTCCATTAATATCTCCGATAT
CCGTGATTTAGAGGCTATTACTTTAAGAACCTGGTGAGGGGCCATGCGTACTCTGTGACGGGCGCCAAG
CAGGTAACCTACCAGGGCCAGCGGGTGAACCTAATCCGGATGCGGAACCCCTGGGGTGAAGTGGAGTGGAA
AAGGACCTGGAGTGACAGCTCCTATGAGTGAACAAAGTGGACCCCTATGAACGAGAGCAGCTGAGGGT
CAAGATGGAGGATGGGGAGTTCGGATGTCGTTCCGAGACTTCATCCGTGAATTCACAAACTGAAATC
TGCAACCTTACACCGGACGCCCTAAGAGCAGGACCCCTCCGGAATTGGAATACCACATTTTACGAGGGCA
CCTGGCGTGGGGAAGCACCGCTGGAGGCTGCAGGAACCTACCCAGTACCTTCTGGGTAACCCCAAGT
CAAGATCCGGTTGGAGGAGGTGGATGACGACAGCAGACTATGACAACCGGGAGTCGGGCTGCAGTCTTGT
CTGGCCCTCATGCAGAAACCCGCCGACGGGAGCGTTCGTTTGGCCGGGACATGGAGACCATCGGTTTTG
CAGTGTACCAGGTCCTCGGGAGCTGGCGGGTCAAGCTGTGCACTTGAAGCGTGATTTCTTCTGGCCAA
CGCTTCTCGGGCGCAGTCAGAGCACTTCATCAACCTTCGGGAAGTCAGCAACCGTATCCGCTGCCGCC
GGGGAGTACATAGTGGTGCCTCCACCTTCGAGCCCAACAAGAAGGCGACTTCTGTGCGCTTCTTCT
CAGAGAAGAAGGCTGGGACCCAGGAAGTATGACAGATCCAGGCCAACCTCCCTGATGAGAAAGTCTCT
CTCTGAAGAGGAGATTGATGACAACCTCAAGACCTTGTTCAGCAAGTTGGCAGGGGATGACATGGAGATC
AGCGTCAAGGAGCTACAGACCATCTTGAACAGGATCATTAGCAAACACAAGACCTGCGCACTAATGGCT
TCAGCCTGGAGTCGTGCCGACGATGGTGAACCTCATGGATCGAGATGGCAACGGGAAGCTGGGTCTGGT
GGAGTTCAACATCCTGTGGAACCGCATCCGAAATTACCTGACCATCTCCGGAAGTTTGACCTGGACAAG
TCTGGCAGCATGAGTGCCTATGAGATGAGGATGGCCATCGAGGCTGCAGGCTTCAAGCTTAAACAAGAAGC
TGCATGAACCTATAATCACCCGCTACTCGGAGCCCGACCTGGCCGTGGACTTTGACAACCTTGTGTGCTG
TCTTGTGCGGCTGGAGACCATGTTCCGGTTTTTCAAACCTCTGGACACAGACCTGGATGGTGTGTGACC
TTTGATCTATTTAAGTGGCTCCAGCTGACTATGTTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222250 representing NM_001110504
 Red=Cloning site Green=Tags(s)

MTEELITPVYCTGVSAQVQKKRDKELGLGRHENAICYLGQDYETLRARCLQSGVLFQDEAFPPVSHSLGF
 KELGPHSSKTYGIKWKRPTELMSNPQFIVDGATRTRDTCQALGDCWLLAAIASLTLNETILHRVVPYQGS
 FQDGYAGIFHFQLWQFGEWVDVVIDDLLPTKDGKLVFVHSAQGNFWSALLEKAYAKVNGSYEALSGGCT
 SEAFEDFTGGVTEWYDLQKAPSDLYQIILKALERGSLLGCSINISDIRDLEAITFKNLVRGHAYSVTGAK
 QVTYQGQRVNLIRMRNPWGEVEWKGPWSDSSYEWNKVDPYEREQLRVKMEDGEFWMFRDFIREFTKLEI
 CNLTPDALKSRTLNRNWTTFYEGTWRRGSTAGGCRNYPATFWVNPQFKIRLEEVDADDYDNRESGCSFL
 LALMQKHRRRERFRGRDMETIGFAVYQVPRELAGQPVHLKRDFLANASRAQSEHFINLREVSNRIRLPP
 GEYIVVPSTFEPNKEGDFLLRFFSEKKAGTQELDDQIQANLPDEKVLSEEEIDDNFKTLFSKLAGDDMEI
 SVKELQTLNRIISKHKDLRTNGFSLESCRSMVNLMDRDGNGKGLVEFNILWNRIRNYLTIFRKFDLDK
 SGSMSAYEMRMAIEAAGFKLNKKLHELII TRYSEPLAVDFDNFVCLVRL ETMFRFFKLLDLDLGDVVT
 FDLFKWLQ LTMFA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

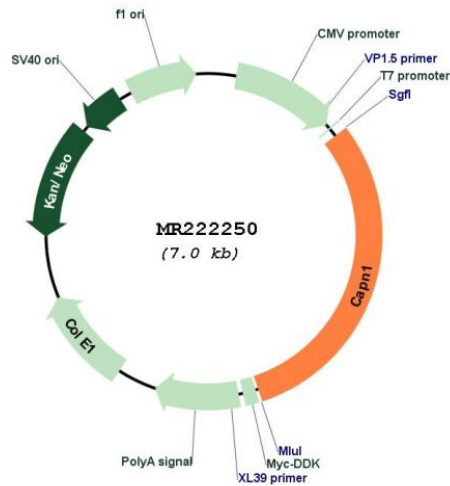
Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001110504

ORF Size: 2139 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_001110504.1](#), [NP_001103974.1](#)

RefSeq Size: 3067 bp

RefSeq ORF: 2142 bp

Locus ID:	12333
UniProt ID:	O35350
Cytogenetics:	19 4.34 cM
MW:	82.6 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]