

Product datasheet for **MR220384**

Capn12 (NM_001110807) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn12 (NM_001110807) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn12
Synonyms:	CANP 12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR220384 representing NM_001110807
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGAGTGGCAACAGGAAGGTCACCATCCAGCTGGTGGACGACGGGGCCGGGACTGGAGCTGGGGGCC
 CACAGCTCTTTAAAGGCCAGAACTACGAAGCCATCCGAAGAGCTTGCCTGGATTCCGGGATCCTGTTTCG
 TGACCCTTGCTTCTGCTGGCCCTGATGCCCTTGGCTATGACAAGCTGGGACCTGACTCAGAGAAGGCC
 AAAGGGGTGGAATGGAAGAGGCCCATGAGTTTTGTGCTGAGCCCAAGTTCATCTGTGAAGACATGAGCA
 GAACAGATGTGTGCCAGGAAGCTTGGGAACTGCTGGCTTCTTGACGCTGCTGCCTCCCTCACACTCTA
 CCCCAGGCTCCTGTACCGGTGGTCCCCCTGGACAAGGTTTCCAAGATGGCTACGCGGGGGTCTCCAT
 TTTTCAGCTATGGCAGTTTGGCCGCTGGGTGGATGTGGTGGTAGACGACAACTGCCTGTGCGTGAGGGGA
 AGCTGATGTTCTGTCGCTCAGAACAAGGAACGAGTTCTGGGCCCTCTGCTGAAAAGGCCATGCCAA
 GCTCCATGGCTCCTACGAGGTAATGCGAGGAGGTACATGAACGAGGCTTTTGTGGACTTACAGGAGGC
 GTGGGTGAGGTCCTACTTGGACAAAACACTCCAGGTGCTTTGCTGCCCTTCCGCACGATTGGCCA
 AGGAGTCCCTTGTGGGTGCTACTGCCCTGAGTGATCGGGGTGAGATCCGCACAGATGAAGGGCTGGTGA
 GGGACATGCTTATTCTGTACAGGCACGCAAGATGTCTCTGGGCTTACCAAGGTGCGGCTGCTGCGG
 CTGAGGAACCCCTGGGGCCGCTGGAGTGGTCCGGGCCCTGGAGTGACAGCTGCCACGCTGGGACATGC
 TCCCTTCTGAGTGGCGAGATGCCCTGCTGTGAAAAAGGAGGATGGCGAGTTCTGGATGGAGCTTCAAGA
 CTTTCTCACGCACTTCAACACAGTGCAGATTTGTTCACTGAGTCTGAGGTGTTGGGCCCCAGCCCTGCT
 GCGGGCGGCTGGCATATCCACATCTTCCAGGGCCGCTGGGTGCGAGGCTTCAACTCCGGTGGGAGTCAGC
 CAGCGCTGAAAACCTTCTGGACCAACCCCAAGTCCGGCTGACACTGCTGGAGCCTGATGAGGAAGAGGA
 TGACGATGATGAAGAGGGACCTTGGGGAGGCTGGGGAGCGCAGGGGCCCGGGGCCCGGGGAGAGGAGGC
 CGAGTCCCAAGTGCACGGTCTGTTGTCACTCATCCAGCGCAACCGCCGGTGTCTGAGGGCCAAGGGCC
 TCACTTACCTCACTGTGGGCTTCCACGTGTTCCAGATTCCGGAGGAGCTGCTGGACCTCTGGGACTCCCC
 GCGCAGCCGCGGCTCTTGGCGGACTGCTGCGCGCCGACCGCTCGGTTTTCTGCGCCCGCGCGACGTG
 AGCCGTCGCTGTCGCTGCCGCTGGCCACTACCTGGTGGTACCCAGCGCTCGCGGTAGGCGATGAAG
 CCGACTTCACTTGCATCTTCTCGGAGCGCAGCCACACCGCAGTGGAGATCGATGACGTGATCAGCGC
 AGACTGGACGCCCTCCAGGCCCTACAAGCCCTGGAGCTGGAGTTGGCACAGCTATTTTGGAGCTG
 GCTGGAGAGGAGGAGGAACCAACGCGCTTCACTGCAGACCTTAATAAGCATTGCTCTGGAACCTGCCA
 GGGCCAACACCAGGACCCCTGGAGAGATTGGGGCTTAGGACCTGCGAACAGCTTGTGACGTGTTTTGGGCG
 TGGGCAAAGACTGTCCCTACACCACTTCCAGGAGCTCTGGGGCCATCTCATGTATGGCAGGCCACATTT
 GACAAGTTTGTGAAGATGCCTCTGGGACAATGAACTCCTGTGAACTGAGGCTGGCACTGACTGCTGCAG
 GCTTCCACCTCAACAACCAGCTGACCCAGTCCCTCACTAGCCGCTACCGGACAGCCGGCTCCGTGTGGA
 CTTGAGCGCTTCGTGTGCTGTGCAGCCCGGCTCACCTGCATCTTCCGCCACTGCTGCCAACACCTGGAT
 GGCGGCGAGGGGGTCTGCTGCTGACCCACAACAGTGGTCCGAGGTGGCTACCTTCTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220384 representing NM_001110807
 Red=Cloning site Green=Tags(s)

MASGNRKVTIQLVDDGAGTGAGGPQLFKGQNYEAIIRRACLDSGILFRDPCFPAGPDALGYDKLGPDSEKA
 KGVEWKRPHEFCAEPQFICEDMSRTDVCQGS LGNCWLLAAAASL TLYPRLLYRVVPPGQGFQDGYAGVFH
 FQLWQFGRWVDVVDDKLPVREGKLMFVRSEQRNEFWAPLLEKAYAKLHGSYEVMRGGHMNEAFVDF TGG
 VGEVLYLRQNTPGVFAALRHALAKESLVGATALSDRGEIRTDEGLVKGHAYSVTGTHKMSLGFTKVRLLR
 LRNPWGRVWESGPWSDSCPRWDMLPSEWRDALLVKKEDGEFWMELQDFLTHFNTVQICSLSPEVLGPSPA
 GGGWHIHFQGRWVRGFNSGGSQPSAENFWTNPQFRLTLEPDEEEDDDDEEGPWGGWGAAGARGPARGG
 RVPKCTVLLSLIQNRRLRAKGLTYLTVGFHFVQIPEELLDLWSPRSRALLPGLLRADRSVFCARRDV
 SRRCLPPGHYLVPVSRVGD EADFTLRIF SERSHTAVEIDDI SADLDALQAPYKPLELELAQLFLEL
 AGEEEELNALQLTLISIALEPARANTRTPGEIGLRTCEQLVQCFGRGQRLSLHHFQELWGHLMMSWQATF
 DKFDEASGTMNSCELRLALTAAGFHLNNQLTQSLTSRYRDSRLRVDFERFVCCAARLTCIFRHCCQHLD
 GGEGVCLTHKQWSEVATFS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001110807

ORF Size: 2160 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_001110807.1](#), [NP_001104277.1](#)

RefSeq Size: 2828 bp

RefSeq ORF: 2163 bp

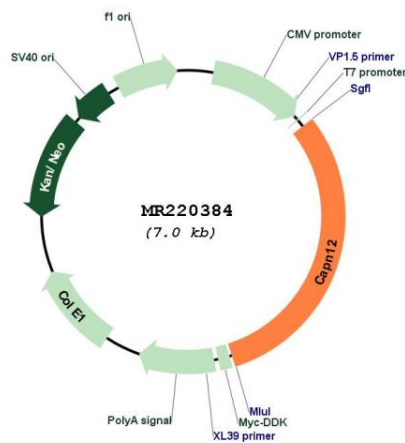
Locus ID: 60594

Cytogenetics: 7 B1

MW: 81.1 kDa

Gene Summary: Calcium-regulated non-lysosomal thiol-protease.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220384