

Product datasheet for **RR211513**

Capn1 (NM_019152) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn1 (NM_019152) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR211513 representing NM_019152
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGAGGAGTTAATCACACCTGTGTACTGCACCGGGGTGTCAGCCCAAGTGCAGAAGCAACGGGACA
 AGGAGTTGGGCTTGGGCCGCCATGAAAATGCCATCAAGTACCTGGGCCAGGATTATGAAAATCTTCGTGC
 AAGATGCCTGCAGAACGGGGTCTCTTCCAAGACGATGCCTTCCCTCCAGTTTTCATAGCTTGGGCTTC
 AAGAACTGGGTCCCAATTCTCTAAAACCTATGGCATCAAGTGAAGCGTCTACGGAAGTGTGTCAA
 ACCCCAGTTCATCGTGGATGGAGCCACCCGAACGGACATCTGCCAGGGAGCACTGGGGACTGTTGGCT
 CCTGGCTGCCATTGCCTCGCTCACTCTCAACGAGACTATCTCCACCGAGTGGTTCCTACGGCCAGAGC
 TTCAGGAGGGCTATGCTGGCATCTTTCAATTCAGCTGTGGCAGTTTGGGGAGTGGGTAGATGTGGTTG
 TGGATGATTTGCTACCCACCAAGGATGGAAGCTGGTGTTCGTGCACTCTGCCAGGGCAACGAGTCTG
 GAGCGCTCTCCTGGAGAAAGCCTATGCAAAAGTGAATGGCAGCTATGAGGCCCTTTCGGGAGGCTGCACC
 TCAGAGGCCTTCGAGGACTTTACCGGTGGGGTCACTGAGTGGTACGATCTGCAGAAGGCACCCAGCGACC
 TCTACCAGATCATTCTGAAGGCCCTGGAACGAGGCTCCTTGTGGGCTGTCCATTAATATCTCCGATAT
 CCGTGATTTGGAGGCTATTACTTTAAGAACCTGGTGAGGGGCCATGCATACTCTGTGACGGATGCCAAG
 CAGGTCACCTACCAGGGCCAGCGGGTGAACCTAATCCGGATGCGGAACCCCTGGGGTGAAGTGGAGTGG
 AAGGACCTGGAGTGACAACCTATGAGTGAACAAAGTGGACCCCTATGAACGTGAGCAGCTGAGGGT
 CAAGATGGAGGACGGGGAGTTCTGGATGTCTTCCGGGACTTCATACGTGAGTTCACCAAAGTGGAAATC
 TGCAACCTTACACCTGACGCCCTAAGAGCAGAACCCTCCGGAAGTGAATACCACATTTTACGAGGGCA
 CCTGGCGCCGGGAAGCACTGTGGAGGCTGCAGGAACCTACCCAGTACCTTCTGGGTAACCCCCAGT
 CAAGATCCGGCTGGAGGAGGTGGATGACGCAGACGACTATGACAGTTCGAGAGTCCGGCTGCAGCTTCTG
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 CAGTGTACCAGGTCCCTCGGGAGTTGGCGGGTCACTGTGCACTTGAAGCGTGACTTCTTCTGGCCAA
 TGCTTCTCGGGCACAATCAGAGCACTTTATCAACCTTCGAGAGGTCAGTAACCGCATCCGCCTGCCGCC
 GGGGAGTATATAGTGGTGCCTCCACCTTCGAGCCCAACAAGAGGGTGACTTTCTGCTGCGCTTCTTT
 CAGAGAAGAAGGCTGGGACCCAGGAAGTATGACAGATCCAGGCCAACCTCCCGATGAGAAAGTGTCT
 CTCTGAAGAGGAGATCGATGACAACCTCAAACCTGTTAGCAAGTTGGCAGGGGATGACATGGAGATC
 AGTGTCAAGGAGTTACAGACCATCTTGAACAGAATCATTAGCAAACACAAGACCTGCGCACTAACGGCT
 TCAGCCTGGAGTCGTGCCGACGATGGTGAACCTCATGGATCGAGACGGTAATGGGAAACTGGGCCTGGT
 GGAGTTCAACATCCTGTGGAACCGCATCCGAAATTACCTGACCATCTTCCGAAAGTTTGACCTGGACAAG
 TCTGGCAGCATGAGTGTATGAGATGAGGATGGCCATCGAGGCTGCAGGCTTCAAGCTTAAACAAGAAGC
 TGCATGAGCTCATCATACCCGCTACTCAGAGCCCGACCTGGCCGTGGACTTTGACAACCTTGTGTGCTG
 CCTTGTGCGCCTGGAGACCATGTTCCGGTTTTTCAAAATCTGGACACAGACCTGGATGGTGTGTGACC
 TTTGATCTATTTAAGTGGTTACAGCTGACTATGTTTGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211513 representing NM_019152
 Red=Cloning site Green=Tags(s)

MAEELITPVYCTGVSAQVQKQRDKELGLGRHENAICYLGQDYENLRARCLQNGVLFQDDAFPPVSHSLGF
 KELGPNSSKTYGIKWKRPTELLSNPQFIVDGA TRTDICQGALGDCWLLAAIASLTLNETILHRVVPYQGS
 FQEGYAGIFHFQLWQFGEWVDVVDDLLPTKDGKLVFVHSAQGNFWSALLEKAYAKVNGSYEALSGGCT
 SEAFEDFTGGVTEWYDLQKAPSDLYQIILKALERGSLLGCSINISDIRDLEAITFKNLVRGHAYSVTDKAK
 QVTYQQRVNLIRMRNPWGEVEWKGPWSDNSYEWNKVDPYEREQLRVKMEDGEFWMFRDFIREFTKLEI
 CNLTPDALKSRTLNRNWTTFYEGTWRRGSTAGGCRNYPATFWVNPQFKIRLEEVDADDYDSRESGCSFL
 LALMQKHRRRRFRGRDMETIGFAVYQVPRELAGQPVHLKRDFFLANASRAQSEHFINLREVSNRIRLPP
 GEYIVVPSTFEPNKEGDFLLRFFSEKKAGTQELDDQIQANLPDEKVLSEEEIDDNFKTLFSLKLAGDDMEI
 SVKELQTLNRIISKHKDLRTNGFSLESCRSMVNLMDRDGNGKGLGLVEFNILWNRIRNYLTIFRKFDLK
 SGSMSAYEMRMAIEAAGFKLNKKLHELII TRYSEPLAVDFDNFVCLVRL ETMFRFFKILD TDL DGVVT
 FDLFKWLQ LTMFA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_019152

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_019152.2](#), [NP_062025.1](#)

RefSeq Size: 3020 bp

RefSeq ORF: 2142 bp

Locus ID: 29153

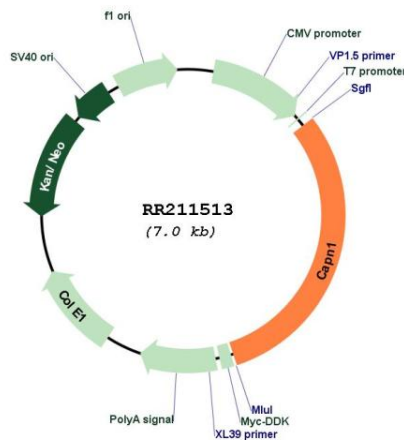
UniProt ID: [P97571](#)

Cytogenetics: 1q43

MW: 82.1 kDa

Gene Summary: calcium-dependent protease that may be involved in experimental allergic encephalomyelitis (EAE) [RGD, Feb 2006]

Product images:



Circular map for RR211513