

Product datasheet for **RC222001**

Calpain 3 (CAPN3) (NM_173087) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 3 (CAPN3) (NM_173087) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calpain 3
Synonyms:	CANP3; CANPL3; LGMD2; LGMD2A; LGMDD4; LGMDR1; nCL-1; p94
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222001 representing NM_173087
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCACCGTCATTAGCGCATCTGTGGCTCCAAGGACAGCGGCTGAGCCCCGGTCCCCAGGGCCAGTTC
 CTACCCGGCCAGAGCAAGGCCACTGAGGCTGGGGTGGAAACCAAGTGGCATCTATTAGCCATCAT
 CAGCCGCAATTTTCTATTATCGGAGTGAAGAGAAGACATTCGAGCAACTTCACAAGAAATGTCTAGAA
 AAGAAAGTTCTTTATGTGGACCTGAGTCCACCAGGATGAGACCTCTCTTTTATAGCCAGAAGTTCC
 CCATCCAGTTCGCTGGAAGAGACCTCCGAAATTTGCGAGAATCCCGATTTATCATTGATGGAGCCAA
 CAGAACTGACATCTGTCAAGGAGAGCTAGGGGACTGCTGGTTTCTCGCAGCCATTGCCTGCCTGACCCTG
 AACCGACCTTCTTTCCGAGTCATACCCATGATCAAAGTTTCATCGAAAACACGAGGGATCTTCC
 ACTTCCAGTTCGCGCTATGGAGAGTGGGTGGACGTGGTTATAGATGACTGCCTGCCAAGTACAACAA
 TCAACTGGTTTTACCAAGTCCAACCACCGCAATGAGTCTGGAGTGTCTGCTGGAGAAGGCTTATGCT
 AAGCTCCATGGTTCTACGAAGCTCTGAAAGGTGGAAACACCACAGAGGCCATGGAGGACTTCACAGGAG
 GGGTGGCAGAGTTTTTGTAGATCAGGGATGCTCCTAGTGACATGTACAAGATCATGAAGAAAGCCATCGA
 GAGAGGCTCCCTCATGGGCTGCTCCATTGATACAATCATTCCGGTTCAGTATGAGACAAGAAATGGCTGC
 GGGCTGGTCAGAGGTCACGCCTACTCTGTACGGGGCTGGATGAGGTCCCCTTCAAAGGTGAGAAAGTGA
 AGCTGGTGCAGGTCGCGAATCCGTGGGGCCAGGTGGAGTGAACGGTCTTGGAGTGATAGATGGAAGGA
 CTGGAGCTTTGTGACAAAGATGAGAAGGCCCTGTCAGCACCAGGTCACTGAGGATGGAGAGTTCTGG
 ATGTCTATGAGGATTCATCTACCATTCACAAAGTTGGAGATCTGCAACCTCACGGCCGATGCTCTGG
 AGTCTGACAAGCTTCAGACCTGGACAGTGTCTGTGAACGAGGGCCGCTGGGTACGGGTTGCTCTGCCGG
 AGGCTGCCGCAACTTCCAGATACTTTCTGGACCAACCCTCAGTACCGTCTGAAGCTCCTGGAGGAGGAC
 GATGACCCTGATGACTCGGAGGTGATTTGCAGTCTCCTGGTGGCCCTGATGCAGAAGAACCAGGCGGAAGG
 ACCGGAAGCTAGGGGCCAGTCTTCCACATTGGCTTCGCCATCTACGAGGTTCCCAAAGAGATGCACGG
 GAACAAGCAGCACCTGCAGAAGGACTTCTCCTGTACAACGCCTCCAAGGCCAGGAGCAAAACCTACATC
 AACATGCGGGAGGTGCCAGCGCTTCCGCTGCCTCCAGCGAGTACGTATCGTGCCTCCACCTACG
 AGCCCCACCAGGAGGGGAATTCATCCTCCGGTCTTCTGAAAAGAGGAACCTCTCTGAGGAAGTTGA
 AAATACCATCTCCGTGGATCGGCCAGTGCCACAGCCTGGCAGCTCTGATCAGGAAAGTGAAGAACAGCAA
 CAATCCGGAACATTTTCAAGCAGATAGCAGGAGATGACATGGAGATCTGTGCAGATGAGCTCAAGAAGG
 TCCTTAACACAGTCGTGAACAAACAAGGACCTGAAGACACACGGGTTACACTGGAGTCTGCCGTAG
 CATGATTGCGCTCATGGATACAGATGGCTCTGGAAAGCTCAACCTGCAGGAGTCCACCACCTCTGGAAC
 AAGATTAAGGCCTGGCAGAAAATTTTCAAACACTATGACACAGACCAGTCCGGCACCATCAACAGCTACG
 AGATGCGAAATGCAGTCAACGACGAGGATCCACCTCAACAACCAGCTCTATGACATCATTACCATGCG
 GTACGCAGACAAACATGAACATCGACTTTGACAGTTTCATCTGCTGCTTGGTAGGCTGGAGGGCATG
 TTCAGAGCTTTTCATGCATTTGACAAGGATGGAGATGGTATCATCAAGCTCAACGTTCTGGAGTGGCTGC
 AGCTCACCATGTATGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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_173087.1](#), [NP_775110.1](#)

RefSeq Size: 3040 bp

RefSeq ORF: 2190 bp

Locus ID: 825

UniProt ID: [P20807](#)

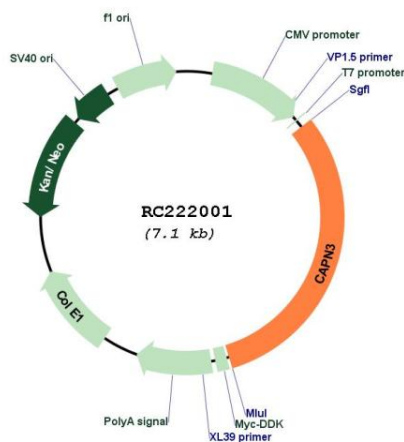
Cytogenetics: 15q15.1

Protein Families: Druggable Genome, Protease

MW: 83.9 kDa

Gene Summary: Calpain, a heterodimer consisting of a large and a small subunit, is a major intracellular protease, although its function has not been well established. This gene encodes a muscle-specific member of the calpain large subunit family that specifically binds to titin. Mutations in this gene are associated with limb-girdle muscular dystrophies type 2A. Alternate promoters and alternative splicing result in multiple transcript variants encoding different isoforms and some variants are ubiquitously expressed. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222001