

Product datasheet for **SC123737**

Calpain 3 (CAPN3) (BC007810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 3 (CAPN3) (BC007810) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calpain 3
Synonyms:	calpain, large polypeptide L3; calpain 3; calpain p94, large [catalytic] subunit; CANP3; CANPL3; LGMD2; LGMD2A; MGC4403; MGC10767; MGC11121; MGC14344; muscle-specific calcium-activated neutral protease 3; nCL-1; OTTHUMP00000161194; OTTHUMP00000161196; p94
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC007810 edited

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GGCACGAGGCACAGGCGATTGGTTTTAGTGGTAGGTGTGTGGGGATCTGTTCTGGTCATC
TGGATGCTGGTCATCGGTGTGCAGTATTGATCAGGACCTGCAAACCCAAAAGCTTATGGG
AGCTGGCAGCTCACAAAAAGAAAAAACCAAGCCACAGCCTGGCAGCTCTGATCAGGAAA
GTGAGGAACAGCAACAATTCCGGAACATTTTCAAGCAGATAGCAGGAGATGACATGGAGA
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AGACACCGGGTTCACACTGGAGTCCTGCCGTAGCATGATTGCGCTCATGGATACAGATG
GCTCTGGAAAGCTCAACCTGCAGGAGTTCCACCACCTCTGGAACAAGATTAAGGCCTGGC
AGAAAATTTTCAAACACTATGACACAGACCAGTCCGGCACCATCAACAGCTACGAGATGC
GAAATGCAGTCAACGACGCAGGATTCCACCTCAACAACCAGCTCTATGACATCATTACCA
TGCGGTACGCAGACAAACACATGAACATCGACTTTGACAGTTTCATCTGCTGCTTCGTTA
GGCTGGAGGGCATGTTTCAGAGCTTTTCATGCATTTGACAAGGATGGAGATGGTATCATCA
AGCTCAACGTTCTGGAGTGGCTGCAGCTCACCATGTATGCCTGAACCAGGCTGGCCTCAT
CCAAAGCCATGCAGGATCACTCAGGATTTTCAGTTTCACCCTCTATTTTCAAAGCCATTTA
CCTCAAAGGACCCAGCAGCTACACCCCTACAGGCTTCCAGGCACCTCATCAGTCATGTTT
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CTCTGGTCCGAGCCGCTCGGTTCTGAAGCGAGTGTCTCTGCTTACCTTGCTCTAGGCTG
TCTGCAGAAGCACCTGCCGGTGGCACTCAGCACCTCCTTTGTGCTAGAGCCCTCCATCACC
TTCACGCTGTCCCACCATGGGCCAGGAACCAACCAGCACTGGGTTCTACTGCTGTGGGG
TAACTAACTCAGTGAATAGGGCTGGTTACTTTGGGCTGTCCAACCTATAAGTTTGGCT
GCATTTTGAAGGCTGATCTAAATAAAGGCATGTGTATGGCTGGAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC007810 unedited NAGTTCAGAAATTTGTATACGACTCATATAGGCGGCACGCGAATTCGCACGAGGCACAGGC GATTGGTTTTAGTGGTAAGTGTGTGGGGATCTGTTCTGGTCATCTGGATGCTGGTCATCG GTGTGCAGTATTGATCAGGACCTGCAAACCCAAAAGCTTATGGGAGCTGGCAGTCACAA AAAGAAAAAACAAGCCACAGCCTGGCAGCTCTGATCAGGAAAGTGAGGAACAGCAACA ATTCCGGAACATTTTCAAGCAGATAGCAGGAGATGACATGGAGATCTGTGCAGATGAGCT CAAGAAGGTCCTTAACACAGTCGTGAACAAACACAAGGACCTGAAGACACACGGGTTAC ACTGGAGTCCTGCCGTAGCATGATTGCGCTCATGGATACAGATGGCTCTGGAAAAGCTCAA CCTGCAGGAGTTCACCACTCTGGAACAAGATTAAGGCCTGGCAGAAAATTTTCAAACA CTATGACACAGACCAGTCCGGCACCATCAACAGCTACGAGATGCGAAATGCAGTCAACGA CGCAGGATTCCACCTCAACAACCAGCTCTATGACATCATTACCATGCGGTACGCAGACNA ACACATGAACATCGACTTTGACAGTTTCATCTGCTGCTTCGTTAGGCTGGANGGCATGTT CAGAGCTTTTCATGCATTTGANCAGGATGGAGATGGTATCATCAAGCTCAACGTTCTGGA GTGGCTGCAGCTACCATGTATGCCTGAACCANGCTGGCCTCATCAAAGCCATGCAGGA TCACTCAGGATTNCAAGTTTACCCTCTATTTTCAAGCCATTNNACTCANAGACCCAGCAG CTACACCCCTACAGCTTCCAGGCCCTCATCAGTCATGTGCTNCTNCATTTTACCCTAC CATCCTGATCGGC
Restriction Sites:	Please inquire
ACCN:	BC007810
Insert Size:	1287 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	BC007810.1 , AAH07810.1
RefSeq Size:	1287 bp
Locus ID:	825
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome, Protease

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]