

Product datasheet for **SC306787**

Calpain 3 (CAPN3) (NM_173087) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 3 (CAPN3) (NM_173087) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAPN3
Synonyms:	CANP3; CANPL3; LGMD2; LGMD2A; LGMDD4; LGMDR1; nCL-1; p94
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_173087, the custom clone sequence may differ by one or more nucleotides

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ATGCCGACCGTCATTAGCGCATCTGTGGCTCCAAGGACAGCGGCTGAGCCCCGGTCCCCA
GGGCCAGTTTCTCACCCGGCCAGAGCAAGGCCACTGAGGCTGGGGGTGGAAACCAAGT
GGCATCTATTAGCCATCATCAGCCGCAATTTTCTATTATCGGAGTGAAAGAGAAGACA
TTCGAGCAACTTCACAAGAAATGTCTAGAAAAGAAAGTTCTTTATGTGGACCTGAGTTC
CCACCGGATGAGACCTCTCTCTTTTATAGCCAGAAGTCCCCATCCAGTTCGTCTGGAAG
AGACCTCCGGAATTTGCGAGAATCCCCGATTTATCATTGATGGAGCCAACAGAAGTGC
ATCTGTCAAGGAGAGCTAGGGGACTGCTGGTTTCTCGCAGCCATTGCCTGCCTGACCCTG
AACCAGCACCTTCTTTCCGAGTCATACCCCATGATCAAAGTTTCATCGAAAACACGCA
GGGATCTTCCACTTCCAGTTCTGGCGCTATGGAGAGTGGGTGGACGTGGTTATAGATGAC
TGCCTGCCAACGTACAACAATCAACTGGTTTTACCAAGTCCAACCACCGCAATGAGTTC
TGGAGTGTCTGTGGAGAAGGCTTATGCTAAGCTCCATGGTTCCTACGAAGCTCTGAAA
GGTGGGAACACCACAGAGGCCATGGAGGACTTCACAGGAGGGGTGGCAGAGTTTTTGGAG
ATCAGGGATGCTCCTAGTGACATGTACAAGATCATGAAGAAAGCCATCGAGAGAGGCTCC
CTCATGGGCTGCCATTGATACAATCATTCCGGTTCAGTATGAGACAAGAAATGGCTGC
GGGCTGGTCAGAGGTCACGCCTACTCTGTACGGGGCTGGATGAGGTCCCGTTCAAAGGT
GAGAAAGTGAAGCTGGTGGCGCTGCGGAATCCGTGGGGCCAGGTGGAGTGGAAACGGTTCT
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CACCAGGTCAGTGGAGTGGAGAGTTTGGATGTCCTATGAGGATTTTCATCTACCATTTT
ACAAAGTTGGAGATCTGCAACCTCACGGCCGATGCTCTGCAGTCTGACAAGCTTCAGACC
TGGACAGTGTCTGTGAACGAGGGCCGCTGGGTACGGGGTGTCTCTGCCGGAGGCTGCCGC
AACTTCCAGATACTTTCTGGACCAACCCTCAGTACCGTCTGAAGCTCCTGGAGGAGGAC
GATGACCCTGATGACTCGGAGGTGATTTGCAGCTTCTTGGTGGCCCTGATGCAGAAGAAC
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GTTCCCAAAGAGATGCACGGGAACAAGCAGCACCTGCAGAAGGACTTCTTCTGTACAAC
GCCTCAAAGGCCAGGAGCAAAACCTACATCAACATGCGGGAGGTGTCCCAGCGCTCCGC
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TTCATCTCCGGTCTTCTGTAAAAGAGGAACCTCTCTGAGGAAGTTGAAAATACCATC
TCCGTGGATCGGCCAGTCCACAGCCTGGCAGCTCTGATCAGGAAAGTGAGGAACAGCAA
CAATCCGGAACATTTTCAAGCAGATAGCAGGAGATGACATGGAGATCTGTGCAGATGAG
CTCAAGAAGTCCCTTAACACAGTCGTGAACAAACAAGGACCTGAAGACACACGGGTTT
ACACTGGAGTCCCTGCCGTAGCATGATTGCGCTCATGGATACAGATGGCTCTGAAAAGCTC
AACCTGCAGGAGTTCACCACCTCTGGAACAAGATTAAGGCTGGCAGAAAATTTTCAA
CACTATGACACAGACCAGTCCGGCACCATCAACAGCTACGAGATGCGAAATGCAGTCAAC
GACGCAGGATCCACCTCAACAACCAGCTCTATGACATCATTACCATGCGGTACGCAGAC
AAACACATGAACATCGACTTTGACAGTTTTCATCTGCTGCTTCGTTAGGCTGGAGGGCATG
TTCAGAGCTTTTTCATGCATTTGACAAGGATGGAGATGGTATCATCAAGCTCAACGTTCTG
GAGTGGCTGCAGCTCACCATGTATGCCTGA

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Restriction Sites: Please inquire

ACCN: NM_173087

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_173087.1</u> , <u>NP_775110.1</u>
RefSeq Size:	3040 bp
RefSeq ORF:	2190 bp
Locus ID:	825
UniProt ID:	<u>P20807</u>
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks three in-frame exons in the coding region, compared to variant 1. It encodes isoform c, which is shorter than isoform a.</p>