

Product datasheet for **SC308630**

Calpain 3 (CAPN3) (NM_212467) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 3 (CAPN3) (NM_212467) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calpain 3
Synonyms:	CANP3; CANPL3; LGMD2; LGMD2A; MGC4403; MGC10767; MGC11121; MGC14344; nCL-1; p94
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_212467 edited GAATTCATGAGTTGGCAAATCAGTTTAAAAACACAAACTACCCAACAGAAAAATGAAATT TGCGAGAATCCCGATTATCATTGATGGAGCCAACAGAAGTACATCTGTCAAGGAGAG CTAGACGGGTTCCAGGGCAGCTGCCTACCTGGCCTTCTTCCAATACAAATCATCTTGGT GGATGGTTCTCTGAGGCTCAGTCTTCGCTGAAAGTCAGAAGAGGAATTGGACTCACATTGC AAAGGCACAGGGCAGGGCAGATTTCTACAGGTGTAGGAAGAACAACCCAGTTATGATC ACCTACTGCTCTGTCTCCATTGAGGCCTAAAAGCTT
Restriction Sites:	Please inquire
ACCN:	NM_212467
Insert Size:	324 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).
OTI Annotation:	The ORF of this and other two mentioned colonies have been fully sequenced and proven to be a perfect match to the published NM_212467.1.
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).



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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_212467.1](#), [NP_997632.1](#)

RefSeq Size: 3521 bp

RefSeq ORF: 324 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]
Transcript Variant: This variant (9) is generated from an alternate promoter; it has 5 alternate 5' exons and an additional middle exon, and lacks an internal exon in the 3' region, as compared to variant 1. It encodes isoform h, which has shorter and distinct N- and C-termini compared to isoform a.