

## Product datasheet for **SC331231**

### Calpain 1 (CAPN1) (NM\_001198868) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 1 (CAPN1) (NM_001198868) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calpain 1
Synonyms:	CANP; CANP1; CANPL1; muCANP; muCL; SPG76
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC331231 representing NM\_001198868.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCCGGAGGAGATCATCACGCCGGTGTACTGCACTGGGGTGTGAGCCCAAGTGCAGAAGCAGCGGGCC
AGGGAGCTGGGCCTGGGCCGCCATGAGAATGCCATCAAGTACCTGGGCCAGGATTATGAGCAGCTGCGG
GTGCGATGCCTGCAGAGTGGGACCCTCTCCGTGATGAGGCCTTCCCCCGGTACCCAGAGCCTGGGT
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CCCAGTGACCTTACCAGATCATCTCAAGGCGCTGGAGCGGGGCTCCCTGCTGGGCTGCTCCATAGAC
ATCTCCAGCGTTCTAGACATGGAGGCCATCACTTTCAAGAAGTTGGTGAAGGGCCATGCCTACTCTGTG
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TGGGTGAACCCCTCAGTTCAGATCCGGCTGGATGAGACGGATGACCCGGACGACTACGGGGACCGCGAG
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AGCACCCGCTTCCGCTGCCACCCGGGAGTATGTGGTGGTCCCTCCACCTTCGAGCCCAACAAGGAG
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GCCAATCTCCCCGATGAGCAAGTCTCTCAGAAGAGGAGATTGACGAGAATTCAAGGCCCTCTCAGG
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AAACACAAAGACCTGCGGACCAAGGGCTTCAGCCTAGAGTCGTGCCGAGCATGGTGAACCTCATGGAT
CGTGATGGCAATGGGAAGCTGGGCTGGTGGAGTCAACATCCTGTGGAACCGCATCCGGAATTACCTG
TCCATCTCCGGAAGTTTACCTGGACAAGTCGGGCAGCATGAGTGCCTACGAGATGCGGATGGCCATT
GAGTCGGCAGGCTTCAAGCTCAACAAGAAGCTGTACGAGCTCATCATACCCGCTACTCGGAGCCCGAC
CTGGCGGTGCACTTTGACAATTTGCTTTGCTGCCTGGTGGGCTAGAGACCATGTTCCGATTTTTCAA
ACTCTGGACACAGATCTGGATGGAGTTGTGACCTTTGACTTGTAAAGTGGTTGCAGCTGACCATGTTT
GCATGA
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001198868

**Insert Size:** 2145 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:**

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\\_001198868.1](#)

**RefSeq Size:** 3125 bp

**RefSeq ORF:** 2145 bp

**Locus ID:** 823

**UniProt ID:** [P07384](#)

**Cytogenetics:** 11q13.1

**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** Alzheimer's disease, Apoptosis

**MW:** 81.9 kDa

**Gene Summary:** The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1, 2, and 3 all encode the same protein.