

Product datasheet for **SC327142**

Calpain 2 (CAPN2) (NM_001146068) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 2 (CAPN2) (NM_001146068) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAPN2
Synonyms:	CANP2; CANPL2; CANPml; mCANP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_001146068, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGAGATCTGCGCTGACCCCAAGTTTATCATTGGAGGAGCCACCCGCACAGACATCTGC CAAGGAGCCCTGGGTGACTGCTGGCTGCTGGCAGCCATTGCCTCCCTCACCTTGAATGAA GAAATCCTGGCTCGAGTCGTCGCCCTAAACCAGAGCTCCAGGAAAATATGCAGGGATC TTTCACCTCCAGTTCTGGCAATACGGCGAGTGGGTGGAGTGGTGGTGGATGACAGGCTG CCCACCAAGGACGGGGAGCTGCTCTTTGTGCATTACGCCGAAGGGAGCGAGTTCTGGAGC GCCCTGCTGGAGAAGGCATACGCCAAGATCAACGGATGCTATGAAGCGCTATCAGGGGGT GCCACCACTGAGGGCTTGAAGACTTCACCGGAGGCATTGCTGAGTGGTATGAGTTGAAG AAGCCCCCTCCCAACCTGTTCAAGATCATCCAGAAAGCTCGAAAAAGGCTCTCTCCTT GGCTGCTCCATCGACATCACCAGCGCCGCGACTCGGAGGCCATCACGTTTCAGAAGCTG GTGAAGGGGCACGCGTACTCGGTCACCGGAGCCGAGGAGTTGAAAGTAACGGAAGCCTA CAGAAACTGATCCGCATCCGAAATCCCTGGGGAGAAGTGGAGTGGACAGGGCGGTGGAAT GACAACTGCCAAGCTGGAACACTATAGACCCAGAGGAGAGGGAAAGGCTGACCAGACGG CATGAAGATGGAGAATTCTGGATGTCTTTCAGTGACTTCTGAGGCACTATCCCGCCTG GAGATCTGTAACCTGACCCAGACACTCTCACCAGCGATACCTACAAGAAGTGGAAACTC ACCAAAATGGATGGAACTGGAGGCGGGGCTCCACCGCGGAGGTTGCAGGAACTACCCG AACACATTCTGGATGAACCCTCAGTACCTGATCAAGCTGGAGGAGGAGGATGAGGACGAG GAGGATGGGGAGAGCGGCTGCACCTTCTGGTGGGGCTCATTGAGAAGCACCACGGCGG CAGAGGAAGATGGGCGAGGACATGCACACCATCGGCTTTGGCATCTATGAGGTTCCAGAG GAGTTAAGTGGGCGAGCAACATCCACCTCAGCAAAAACCTTCTCCTGACGAATCGCGCC AGGAGCGCTCAGACACCTTCAACCTCCGGGAGGTGCTCAACCGCTTCAAGTGGCC CCAGGAGAGTACATTCTCGTGCCTTCCACCTTGAACCAACAAGGATGGGGATTTCTGC ATCCGGGTCTTTTCTGAAAAGAAAGCTGACTACCAAGCTGTCGATGATGAAATCGAGGCC AATCTTGAAGAGTTCGACATCAGCGAGGATGACATTGATGATGGATTGAGGAGACTGTTT GCCAGTTGGCAGGAGAGGATGCGGAGATCTCTGCCTTTGAGCTGCAGACCATCTGAGA AGGGTTCTAGCAAAGCGCCAAGATATCAAGTCAGATGGCTTCCAGCATCGAGACATGCAA ATTATGGTTGACATGCTAGATTCGGACGGGAGTGGCAAGCTGGGGCTGAAGGAGTTCTAC ATTCTCTGGACGAAGATTCAAAAATACCAAAAAATTTACCGAGAAATCGACGTTGACAGG TCTGGTACCATGAATTCCTATGAAATGCGGAAGGCATTAGAAGAAGCAGGTTTCAAGATG CCCTGTCAACTCCACCAAGTCATCGTTGCTCGGTTTGCAGATGACCAGCTCATCATCGAT TTTGATAATTTTGTTCGGTGTGGTTCGGCTGGAACGCTATTCAAGATATTTAAGCAG CTGGATCCCGAGAATACTGGAACAATAGAGCTCGACCTTATCTCTGGCTCTGTTTCTCA GTAATT </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001146068
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:

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_001146068.1](#), [NP_001139540.1](#)

RefSeq Size: 3270 bp

RefSeq ORF: 1869 bp

Locus ID: 824

UniProt ID: [P17655](#)

Cytogenetics: 1q41

Protein Families: Druggable Genome, Protease

Protein Pathways: Alzheimer's disease, Apoptosis, Focal adhesion

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 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]
Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.