

Product datasheet for **SC119079**

Calpain 2 (CAPN2) (NM_001748) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 2 (CAPN2) (NM_001748) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calpain 2
Synonyms:	CANP2; CANPL2; CANPml; mCANP
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001748 edited
 ATGGCGGGCATCGCGCCAAGCTGGCGAAGGACCGGGAGGCGGCCGAGGGGCTGGGCTCC
 CACGAGAGGGCCATCAAGTACCTCAACCAGGACTACGAGGCGCTGCGGAACGAGTGCCTG
 GAGGCGGGACGCTCTCCAGGACCCGTCCTTCCCGGCCATCCCCCGGCCCTGGGCTTC
 AAGGAGTTGGGGCCCTACTCCAGCAAACCCGGGGCATCGAGTGAAGCGCCCCACGGAG
 ATCTGCGCTGACCCCAAGTTTATCATTGGAGGAGCCACCCGCACAGACATCTGCCAAGGA
 GCCCTAGGTGACTGCTGGCTGCTGGCAGCCATTGCCTCCCTCACCTTGAATGAAGAAATC
 CTGGCTCGAGTCGTCCTTAAACCAGAGCTTCCAGGAAAATATGCAGGGATCTTTCAC
 TTCCAGTTCTGGCAATACGGCGAGTGGGTGGAGTGGTGGTGGATGACAGGCTGCCACC
 AAGGACGGGGAGCTGCTCTTTGTGATTAGCCGAAGGGAGCGAGTTCTGGAGCGCCCTG
 CTGGAGAAGGCATACGCCAAGATCAACGGATGCTATGAAGCACTACAGGGGGTGCACC
 ACTGAGGGCTTCGAAGACTTACCAGGAGCATTGCTGAGTGGTATGAGTTGAAGAAGCCC
 CCTCCCAACTGTTCAAGATCATCCAGAAAGCTCTGAAAAAGGCTCTCTCTTGGCTGC
 TCCATCGACATCACCAGCGCCGGGACTCGGAGGCCATCACGTTTCAAGAGCTGGTGAAG
 GGGCACGCGTACTCGGTACCCGAGCCGAGGAGTTGAAAGTAACGGAAGCCTACAGAAA
 CTGATCCGCATCCGAAATCCCTGGGGAGAAGTGGAGTGGACAGGGCGGTGGAATGACAAC
 TGCCCAAGCTGGAACACTATAGACCCAGAGGAGAGGGAAAAGGCTGACCAGACGGCATGAA
 GATGGAGAATTCTGGATGTCTTTCAGTGACTTCTGAGGCACTATTCCCGCTGGAGATC
 TGTAACCTGACCCAGACACTCTACCAGCGATACCTACAAGAAGTGGAAACTACCAAAA
 ATGGATGGGAAGTGGAGGCGGGGCTCCACCGGGGAGGTTGCAGGAACTACCCGAACACA
 TTCTGGATGAACCCTCAGTACCTGATCAAGCTGGAGGAGGAGGATGAGGACGAGGAGGAT
 GGGGAGAGCGGCTGCACCTTCTGGTGGGGCTCATTGAGAAGCACCGACGCGGCGCAGAGG
 AAGATGGGCGAGGACATGCACACCATCGGCTTTGGCATCTATGAGTTCCAGAGGAGTTA
 AGTGGGCAGACCAACATCCACCTCAGCAAAAATTTCTTCTGACGAATCGCGCCAGGGAG
 CGCTCAGACACCTTCATCAACCTCCGGGAGGTGCTCAACCGCTTCAAGCTGCCGCCAGGA
 GAGTACATTCTCGTGCCTTCCACCTTCCAACCAACAAGGATGGGGATTCTGCATCCGG
 GTCTTTTCTGAAAAGAAAGCTGACTACCAAGCTGTCGATGATGAAATCGAGGCCAATCTT
 GAAGAGTTCGACATCAGCGAGGATGACATTGATGATGGATTGAGGAGACTGTTTGCCAG
 TTGGCAGGAGAGGATGCGGAGATCTCTGCCTTTGAGCTGCAGACCATCCTGAGAAGGGTT
 CTAGCAAAGCGCCAAGATATCAAGTCAGATGGCTTCAAGCATCGAGACATGCAAAAATATG
 GTTGACATGCTAGATTCCGACGGGAGTGGCAAGCTGGGGCTGAAGGAGTTCTACATTCTC
 TGGACGAAGATTCAAAAATACCAAAAAATTTACCGAGAAATCGACGTTGACAGGTCTGGT
 ACCATGAATTCCTATGAAATGCGGAAGGCATTAGAAGAAGCAGGTTTCAAGATGCCTGT
 CACTCCACCAAGTCATCGTTGCTCGGTTTGCAGATGACCAGCTCATCATCGATTTTGTAT
 AATTTTGTTCGGTGTTCGGTTCGGCTGGAACGCTATTCAAGATATTTAAGCAGCTGGAT
 CCCGAGAATACTGGAACAATAGAGCTCGACCTTATCTCTGGCTCTGTTTCTCAGTACTT
 TGA

Restriction Sites: NotI-NotI

ACCN: NM_001748

Insert Size: 2100 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: 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_001748.3</u> , <u>NP_001739.1</u>
RefSeq Size:	3419 bp
RefSeq ORF:	2103 bp
Locus ID:	824
UniProt ID:	<u>P17655</u>
Cytogenetics:	1q41
Domains:	Calpain_III, EFh
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Alzheimer's disease, Apoptosis, Focal adhesion
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>