

Product datasheet for **SC117602**

Calpain 5 (CAPN5) (NM_004055) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 5 (CAPN5) (NM_004055) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calpain 5
Synonyms:	ADNIV; HTRA3; nCL-3; VRNI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_004055 edited

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TCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCG
GCACGAGGGCTGCTGCGCCGGCGGCTGCAGCCTCCGCTCCAGCGCCCGCCGTCGCCCT
GCATCCCGGGAGCCCGGCTGGACCCGCGCGGCTCGGCCGGTGTCCCCCTCCCTCCCT
GGGGCAGCAGCCACCATGTTCTCGTGTGTGAAGCCCTATGAGGACCAGAATACTACTAGCC
CTGAGGCGGGACTGCCGGCGCAGGAAGGTGCTCTTCGAGGACCCCTCTCCCGCCACT
GACGACTCACTACTATAAAGGACAGCCCGGGGCCCGCTCAGGTGGAAGCGACCCAAAG
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GGCCAGGTGGGCAACTGTGTTTGTGGCAGCCTGCTCGTCACTTGCCTCCCGGAGTCG
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GCCTACGCGGGCATCTTCCACTTCCACTTCTGGCGCTTCGGGGAATGGGTGGACGTGGTC
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AATGAGTTTTGGTGCGCCCTAGTGGAGAAGGCCTATGCCAACTGGCAGGCTGTTACCAG
GCCCTGGATGGAGCAACACAGCAGACGCACTGGTGGACTTACGGGTGGTGTCTGAG
CCCATCGACCTGACCGAGGGTGACTTTGCCAACGATGAGACTAAGAGGAACCAGCTTTT
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AAGCCAGAAGATGAAGTCTGATCTGCATCCAGCAGCGGCCAAAGCGGTCTACGCGCCGG
GAGGGCAAGGGTGAAGACCTGGCCATTGGCTTTGACATCTACAAGGTGGAGGAGAACC GC
CAGTACCGCATGCACAGCCTGCAGCACAAGGCCGCCAGCTCCATCTACATCAACTCACGC
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GAGCCAGGCCACACTGGCGAGTTCCTGCTCCGAGTCTTCACTGATGTGCCCTCCAAC TGC
CGGGAGCTGCGCCTGGATGAGCCCCACACACCTGCTGGAGCTCCCTCTGTGGCTACCC
CAGCTGGTGACCCAGGTACATGTCTGGGAGCTGCTGGCCTCAAGGACTCCCCAACAGGG
GCTAACTCTTATGTGATCATCAAGTGTGAGGGAGACAAAGTCCGCTCGGCTGTGAGAAG
GGCACCTCCACACCAGAGTACAATGTGAAAGGCATCTTCTACCGCAAGAAGCTGAGCCAG
CCCATCACTGTACAGGTCTGGAACCACCGAGTGTGAAGGATGAATTTCTGGGCCAGGTG
CACCTAAAGGCTGACCCGGACAACCTCCAGGCCCTGCATACCCTCCACCTCCGGGACCGA
AATAGCCGGCAGCCAGCAACCTGCCAGGCACTGTGGCCGTGCACATTCTCAGCAGCACC
TCCCTCATGGCTGTCTGACACCTGCCACCTACCTGGCTCTGACCGTTCCACCACCATC
TGATGTCCCCACTGGCCCTGAGTCTAGCCTGGGAGCCAGGATACTGGGGTCTTTTCCC
ACTTTCCACTGACTTGTGTGACCTTAGGAAGTCTCTGCCCTCTCTCAGCCTCAGT
GTCCCGAGGGCCCGAAGCATTCCATTCTCGTGGAGGAGTTTCTTGCTGAGATTTCAA
TAGTCCTCCCCACCTCAACTGTACCACCTGCTA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004055 unedited CACGAGGCTGCTGCGCCGGGCGGCTGCAGCCTCCGCTCCAGCGCCCGCGCCGTGCCCTGC ATCCCGGGAGCCCGGCTGGACCCGCGGGCTCGGCCGGTGTTCCTCCCTCCCTCCCTGG GGCAGCAGCCACCATGTTCTCGTGTGTGAAGCCATATGAGGACCAGAATACTCAGCCCT GAGGCGGGACTGCCGGCGCAGGAAGGTGCTCTTCGAGGACCCCTCTTCCCGCCACTGA CGACTCACTCTACTATAAGGGCACGCCGGGGCCCGCCTCAGGTGGAAGCGACCCAAGGG CATCTGCGAGGACCCCGCCTCTTGTGGATGGCATCAGCTCCCACGACCTGCACCAGGG CCAGGTGGGCAACTGCTGGTTTGTGGCAGCCTGCTCGTCACTTGCCTCCCGGGAGTCGCT GTGGCAAAGGTATCCAGACTGGAAGGAGCAGGAATGGGACCCGAAAAGCCCAACGC CTACGCGGGCATCTTCCACTTCCACTTCTGGCGTTTCGGGGAATGGGTGGACGTGGTCAT CGATGACCGGCTGCCACAGTCAACAACAGCTCATCTACTGCCACTCCAACCTCCCGCAA TGAGTTTTGGTGCGCCCTAGTGGAGAAGGCCTATGCCAACTGGCAGGCTGTACCAGGC CCTGGATGGAGCAACACAGCAGACGCACTGGTGGACTTACGG
Restriction Sites:	NotI-NotI
ACCN:	NM_004055
Insert Size:	2800 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:	<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_004055.3</u> , <u>NP_004046.2</u>
RefSeq Size:	3275 bp
RefSeq ORF:	1923 bp
Locus ID:	726
UniProt ID:	<u>Q15484</u>
Cytogenetics:	11q13.5
Domains:	C2, Calpain_III
Protein Families:	Druggable Genome, Protease

Gene Summary:

Calpains are calcium-dependent cysteine proteases involved in signal transduction in a variety of cellular processes. A functional calpain protein consists of an invariant small subunit and 1 of a family of large subunits. CAPN5 is one of the large subunits. Unlike some of the calpains, CAPN5 and CAPN6 lack a calmodulin-like domain IV. Because of the significant similarity to *Caenorhabditis elegans* sex determination gene *tra-3*, CAPN5 is also called as HTRA3. [provided by RefSeq, Jul 2008]