

Product datasheet for **SC123834**

Calpain 11 (CAPN11) (NM_007058) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 11 (CAPN11) (NM_007058) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calpain 11
Synonyms:	calpain11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_007058 edited

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GCCACCAGCATGCTGTAATCCCAAGGCGGAGTCTCCGGAGTCAGCAGAGAGCCTGGAT
GGATCACAGGAGGATAAGCCTCGGGGCTCATGTGCGGAGCCACTTTTACTGATACGGGA
ATGGTGGCTCACATAAACACAGCCGGCTCAAGGCCAAGGGCGTGGGCCAGCAGACAAC
GCCCAGAACTTTGGTAACAGAGCTTTGAGGAGCTGCGAGCAGCCTGTCTAAGAAAGGGG
GAGCTCTTCGAGGACCCCTTATTCCTGCTGAACCCAGCTCACTGGGCTTCAAGGACCTG
GGCCCAACTCCAAAAATGTCAGAACATCTCCTGGCAGCGGCCAAGGATATCATAAAC
AACCTCTATTTCATCATGGATGGGATTTCTCCAACAGACATCTGCCAGGGGATCCTCGGG
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GTGGTGCCAGAGGACAGAGCTTCAAGAAAACTATGCTGGCATCTTCCATTTTCAGATT
TGGCAGTTTGGACAGTGGGTGAACGTGGTGGTAGATGACCGGCTGCCACAAAGAATGAC
AAGCTGGTGTGTTGCACTCAACCGAACGCAGTGAGTTCTGGAGTGCCCTGCTGGAGAAG
GCGTATGCCAAGCTGAGTGGTCTATGAAGCATTGTGAGGGGCGAGTACCATGGAGGGC
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CTGCTCAGGCTCCTTAGGAAGGCGTGGAGCGATCCTCCTCATGGGTTGCTCCATTGAA
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ATAGTGGCAGGAGAGGGCAAGGAGATAGGGGTGTATGAGCTCCAGAGGCTGCTCAACAGG
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ATGATCAACCTCATGGATAAAGATGGCTCTGGCAAGCTGGGGCTTCTAGAGTTCAAGATC
CTGTGGAAAAAACTCAAGAAATGGATGGACATCTTCAGAGAGTGTGACCAGGACCATTC
GGCACCTTGAACCTCATGAGATGCGCCTGGTTATTGAGAAAGCAGGCATCAAGCTGAAC
ACAAGGTAATGCAGGTCTGTTGGCCAGGTATGCAGATGATGACCTGATCATAGACTTT
GACAGCTTCATCAGCTGTTTCTGAGGCTAAAGACCATGTTACATTCTTTCTAACCATG
GACCCCAAGAATACTGGCCATATTTGCTTGAGCCTGGAACAGTGGCTGCAGATGACCATG
TGGGGATAGAGGCGCTGTAGGAGCCTGGTCATCTTACCAGCAGCAGCAGCAGCGAGGTT
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GCTGGCTTTCCCCACCATCGCTCTCTCAGAGTATATTTTACTAAAGAGTAGTTGATGCT
TCCCCAGGGTCCCCCTGGCTGGGAGGCCAAGAATAGGGAAGGGACTTGTAGCCGTTTC
TTACCCTCCATGCTTGTGCTGCTCACACCTACCTGCTGACCAACCATCCTGGCACAG
CCTCTGTTTTCTCCCCATCTGTGGATACTATTCTAATAAATAGCACATGCCATTGGCTA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_007058 unedited TGAAGTCAAATTTGTATACGACTCATATAGGGCGGCCGGAATCAAATCTGGTACCGGTCCGGAATCCCGGGATGCCACCAGCATGCTGTACTCCCCAGGCCGAGTCTTCCGGAGTCA GCAGAGAGCCTGGATGGATCACAGGAGGATAAGCCTCGGGGCTCATGTGCGGAGCCCACTTTACTGATACGGGAATGGTGGCTCACATAAACACAGCCGGCTCAAGGCCAAGGGCGTGGCCAGCACGACAACGCCAGAAGTTTGGTAACCAGAGCTTTGAGGAGCTGCGAGCAGCC TGTCTAAGAAAGGGGAGCTCTTCGAGGACCCCTTATTCCTGCTGAACCCAGCTCACTG GGCTTCAAGGACCTGGGCCCAACTCCAAAAATGTGCAGAACATCTCTGGCAGCGGCCCAAGGATATCATAAACAACCTCTATTTCATCATGGATGGGATTTCTCCAACAGACATCTGCAAGGGATCCTCGGGGACTGCTGGCTGCTGGCTGCCATCGGCTCCCTTACCACCTGCCCCAACTGCTATACCGCTGGTGCCAGAGGACAGAGCTTCAAGAAAACTATGCTGGCATCTTCCATTTTCAGATTTGGCAGTTTGGACAGTGGGTGAACGTGGTGGTAGATGACCGGCTGCCACAAAGAATGACCAGCTGGTGTGTCAGTCCACCGAACGCATTGAGTTCTGAAGT GCCCTGCTGGGAAAAGCGTATGCCAGCTGAGTGGGGCCTATGAAGCATTGTGAGGGGGC GAGTCCATGGGAGGGCCTTGAGGACTTCACAGGAAGGGTGGGCCAGAGTTTCAACTTCAGAGGCCCTCAGAACCTGTTTCAGCTCCTTAGAAGGGCCGGGACGATCCTCCCTCAGGT
Restriction Sites:	Please inquire
ACCN:	NM_007058
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).
OTI Annotation:	no
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:	<u>NM_007058.2, NP_008989.1</u>
RefSeq Size:	2754 bp
RefSeq ORF:	2109 bp
Locus ID:	11131
UniProt ID:	<u>Q9UMQ6</u>
Cytogenetics:	6p21.1
Protein Families:	Druggable Genome

Gene Summary:

Calpains constitute a family of intracellular calcium-dependent cysteine proteases. There are eight members in this superfamily. They consist of a variable 80 kDa subunit and an invariant 30 kDa subunit. This calpain protein appears to have protease activity and calcium-binding ability. A similar mouse protein may play a functional role in spermatogenesis and in the regulation of calcium-dependent signal transduction events during meiosis. [provided by RefSeq, Dec 2008]