

Product datasheet for **SC120732**

Calpain 13 (CAPN13) (NM_144575) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 13 (CAPN13) (NM_144575) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calpain 13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC120732 sequence for NM_144575 edited (data generated by NextGen Sequencing)

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ATGGCGTATTACCAGGAGCCTTCAGTGGAGACCTCCATCATCAAGTTCAAAGACCAGGAC
TTTACCACCTTGCGGGATCACTGCCTGAGCATGGGCCGGACGTTTAAGGATGAGACATTC
CCTGCAGCAGATTCTCCATAGGCCAGAAGCTGCTCCAGGAAAAACGCCTCTCCAATGTG
ATATGGAAGCGGCCACAGGATCTACCAGGGGTCTCCTCACTTCATCCTGGATGATATA
AGCAGATTTGACATCCAACAAGGAGGCGCAGCTGACTGCTGGTTCTGGCAGCACTGGGA
TCCTTGACTCAGAACCACAGTACAGGCAGAAGATCCTGATGGTCCAAAGCTTTTCACAC
CAGTATGCTGGCATTTCCTGTTCCGGTCTGGCAATGTGGCCAGTGGGTGGAAGTGGTG
ATTGATGACCGCTACCTGTCCAGGAGATAAATGCCTCTTTGTGCGTCTCGCCACCAA
AACCAAGAGTTCTGGCCCTGCCTGCTGGAGAAGGCCTATGCCAAGCTGCTCGGATCCTAT
TCCGATCTGCACTATGGTTCCTCGAGGATGCCCTGGTGGACCTCACAGGAGGCGTGATC
ACCAACATCCATCTGCACTCTTCCCTGTGGACCTGGTGAAGGCAGTGAAGACAGCGACC
AAGGCAGGCTCCCTGATAACCTGTGCCACTCCAAGTGGGCCAACAGATACAGCACAGGCC
ATGGAGAATGGGCTGGTGAAGTCTCCATGCCTACACTGTGACTGGGCTGAGCAGATTCAA
TACCGAAGGGGCTGGGAAGAAATATCTCCTGTGGAACCCTGGGGCTGGGGCGAGGCC
GAATGGAGAGGGCGCTGGAGTGATGGGTCTCAGGAGTGGGAGGAAACCTGTGATCCGCGG
AAAAGCCAGCTACATAAGAAACGGGAAGATGGCGAGTTTTGGATGTCGTGTCAAGATTTT
CAACAGAAATTCATCGCCATGTTTATATGTAGCGAAATCCAATTACCCTGGACCATGGA
AACACACTCCACGAAGGATGGTCCCAAATAATGTTTAGGAAGCAAGTGATTCTAGGAAAC
ACTGCAGGAGGACCTCGGAATGATGCTCAATTCAACTTCTGTGCAAGAGCCAAATGGAA
GGCACCAATGTTGTCGTGTCGTACAGTTGCTGTACACCATCAAATTTGAAAGCAGAA
GATGCAAAATTTCCACTCGATTTCCAAGTGATTCTGGCTGGCTCACAGCGGTTCCGGGAG
AAATTTCCACCCGTGTTTTTTTCCCTCGTTCAGAAACACTGTCCAAGCTCAAATAATAAA
TTCCGCCGCAACTTACCATGACTTACCATCTGAGCCCTGGGAATATGTTGTGGTTGCA
CAGACACGGAGAAAAATCAGCGGAGTTCTTGCTCCGAATCTTCTGAAAATGCCAGACAGT
GACAGGCACCTGAGCAGCATTTC AACCTCAGAATGAAGGGAAGCCCTTCAGAACATGGC
TCCCAACAAAGCATTTTCAACAGATATGCTCAGCAGAGGCTGGACATTGATGCCACCCAG
CTTCAGGGCTTCTCAACCAGGAGCTTCTAACAGGACCTCCAGGGGACATGTTCTCCTTA
GATGAGTGCCGACGCTTGGTGGCTCTGATGGAAGTGAAGTGGGCGGCTAGACCAA
GAGGAGTTTGCGGACTGTGGAAGCGCCTTGTACTACCAGCATGTTTTCCAGAAGGTT
CAGACAAGCCCTGGAGTCTCCTGAGCTCGGACTTGTGGAAGGCCATAGAGAATACAGAC
TTCTCAGAGGGATCTTCATCAGCCGTGAGCTGCTGCATCTGGTGACCCTCAGGTACAGC
GACAGCGTCGGCAGGGTCAGCTTCCCCAGCCTGGTCTGCTTCTGATGCGGCTTGAAGCC
ATGGCAAAGACCTTCCGCAACCTCTCTAAGGATGGAAAAGGACTCTACCTGACAGAAATG
GAGTGGATGAGCCTGGTCATGTACAATGA
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Clone variation with respect to NM_144575.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_144575 unedited</p> <pre>GGATTTTGAATACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGCTCTCCTCCT CTGCCAGTCTCCTCCACCACTCTAACCTGAGAGCCTGTGGAACCTGCCCGTCTCCCCT CCTCCATCAGACACACCTGCCTAGGAAACAGATGGAAAAAGTGAGGGACCGGTGAGTGAC TTGCTGCTAAAGTTTATACCAGATGCAAATGACAGAGCTGGAGTTCTGCTGTGCCTGGAA AGGACCTCGGAAGTCTTCTAAGGAGAGTCATGGCGTATTACCAGGAGCCTTCAGTGGAGA CCTCCATCATCAAGTTCAAAGACCAGGACTTTACCACCTTGCGGGATCACTGCCTGAGCA TGGGCCGGACGTTTAAGGATGAGACATTCCCTGCAGCAGATTCTCCATAGGCCAGAAGC TGCTCCAGGAAAAACGCCTCTCCAATGTGATATGGAAGCGGCCACAGGATCTACCAGGGG GTCCTCCTCACTTCATCCTGGATGATATAAGCAGATTTGACATCCAACAAGGAGGCGCAG CTGACTGTGGTTCCTGGCAGCACTGGGATCCTTGACTCAGAACCACAGTACAGGCAGA AGATCCTGATGGTCCAAAGCTTTTCACACCAGTATGCTGGCATTTCGGTTTCCGGTTCT GGCAATGTGGCCAGTGGGTGGAAGTGGTATTGATGACCGCTACCTGTCCAGGGAGATA AATGCCTCTTTGTGCGTCTCGCCACAAAACCAAGATTCTGGCCCTGCCTGCTGGAGA AAGCCTATGCCAAGCTGCTCGGATCCTATTCCGATCTGCACTATGGCTTCTCGAGGATG CCCTGGTGGACTCACAGNNAGCGTGATCACCACATNCATCTGCACTCTTCCCTGTGNN ACCTGNTGAAGGCAGTGN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_144575 unedited</p> <pre>NCGTCCTACTATGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTT AAATGTTCTGTTTTTAAAAAGGATGAAAGGAGAACTCAGGAAAATGATTGGGTCAAATTA ACTATGATCTCTGCAGTATTCATTTGCGATCATTAGAAAGCATCAAGCGTTCATCAGGAA ATATTTATGCTACAACATTATTTATGGAGACAGTGTCTGTCTTGTACTCAAGGTACAT GAATGGGAGATTAATACTGTTTACAAAAACAATCGAGTTTTAGGTGATATTGATCACAG GTCGGCTGCGTGAAGAACTGTATACTTCGAAGGTATATTGGCACATAGAGAATGGTCACC AGGAGGTCTGAGCCATGGGTCTGCTTTCCCTCTTTGCTTCAAGTGTACATGACCAGGCTCA TCCACTCCATTTCTGTCAAGTAGAGTCTTTTCCATCCTTAGAGAGGTTGCGGAAGGTCT TTGCCATGGCTTCAAGCCGCATCAGGAAGCAGACCAGGCTGGGGAAGCTGACCCTGCCGA CGCTGTGCTGTACCTGAGGGTCACCAGATGCAGCAGCTCACGGCTGATGAAGATCCCTC TGAGGAAGTCTGATTCTCTATGGCCTTCCACAAGTCCGAGCTCAGGAGGACTCCAGGGC TTGTCTGAACCTTCTGGAAAACATGCTGGTAGTGAACAAAGCGCTTCCCCAGTCGCGCAA ACTCCTCTTGGTCTAGCCGCCATTCTTTTTCATTCCATCAGAGCCACCAAGCTGCGGCA CTCATCTAAGAGAACATGTCCCCTGGAGGTCTGGTAGAAGCTCTGGGTTGAAAAGGCC TTGAACCGGGTGGCTCAATGTCCCCTCTGGTGAAGCTTATTGGTTGAAAG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_144575
Insert Size:	2750 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:	NM_144575.2 , NP_653176.2
RefSeq Size:	2690 bp
RefSeq ORF:	2010 bp
Locus ID:	92291
UniProt ID:	Q6MZZ7
Cytogenetics:	2p23.1
Domains:	Calpain_III
Protein Families:	Druggable Genome, Protease
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 a member of the calpain large subunit family. [provided by RefSeq, Jun 2012]