

Product datasheet for **SC115094**

Calpain 6 (CAPN6) (NM_014289) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 6 (CAPN6) (NM_014289) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calpain 6
Synonyms:	CalpM; CANPX; CAPNX; DJ914P14.1
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 SC115094 sequence for NM_014289 edited (data generated by NextGen Sequencing)

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ATGGGTCCTCCTCTGAAGCTCTTCAAAAACCAGAAATACCAGGAAGTGAAGCAGGAATGC
ATCAAAGACAGCAGACTTTTCTGTGATCCAACATTTCTGCCTGAGAATGATTCTCTTTTC
TACAACCGACTGCTTCTCGAAAGGTGGTGTGGAACGTCCTCCAGGACATCTGTGATGAC
CCCCACTGATTGTGGCAACATTAGCAACCACCAGCTGACCCAAGGGAGACTGGGGCAC
AAGCCAATGGTTTCTGCATTTTCTGTTTGGCTGTTTCCAGGAGTCTCATTGGACAAAGACA
ATTCCCAACCATAGGAACAGGAATGGGACCCTCAAAAAACAGAAAAATACGCTGGGATA
TTTCACTTTCGTTTCTGGCATTGTTGGAGAATGGACTGAAGTGGTATTGATGACTTGTG
CCCACCATTAACGGAGATCTGGTCTTCTTTCTCCACTTCCATGAATGAGTTTTGGAAT
GCTCTGCTGGAAAAAGCTTATGCAAAGCTGCTAGGCTGTTATGAGGCCCTGGATGGTTTG
ACCATCACTGATATTATTGTGGACTTACGGGCACATTGGCTGAAACTGTTGACATGCAG
AAAGGAAGATACACTGAGCTTGTGAGGAGAAGTACAAGCTATTCGGAGAAGTGTACAAA
ACATTTACCAAAGGTGGTCTGATCTGCTGTTCCATTGAGTCTCCCAATCAGGAGGAGCAA
GAAGTTGAAACTGATTGGGGTCTGCTGAAGGGCCATACCTATACCATGACTGATATTCGC
AAAATTCGCTCTTGAGAGAGACTTGTGGAAGTCTTCAGTCTGAGAAGGTGATATGGTT
CGCCTGAGAAACCCCTTGGGAAGACAGGAATGGAGTGGCCCTGGAGTGAATTTCTGAA
GAGTGGCAGCAACTGACTGCATCAGATCGCAAGAACCTGGGGCTTGTATGTCTGATGAT
GGAGAGTTTTGGATGAGCTTGGAGGACTTTTGCCGCAACTTTCACAACTGAATGTCTGC
CGCAACGTGAACAACCCATTTTTTGGCCGAAAGGAGCTGGAATCGGTGTTGGGATGCTGG
ACTGTGGATGATGATCCCTGATGAACCGCTCAGGAGGCTGCTATAACAACCGTGATACC
TTCCTGCAGAATCCCCAGTACATCTTCACTGTGCCTGAGGATGGGCACAAGGTCATTATG
TCACTGCAGCAGAAGGACCTGCGCACTTACCGCCGAATGGGAAGACCTGACAATTACATC
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ATGCCCAAAATGCTCTGCTGGAACCTGGCTCGTGGCTACCCGAAAGTAGTTACTCAGATC
ACTGTTACAGTCTGAGGACCTGGAGAAGAAGTATGCCAATGAAACTGTAAACCCATAT
TTGGTCATCAAATGTGGAAGGAGGAAGTCCGTTCTCCTGTCCAGAAGAATACAGTTCAT
GCCATTTTTGACACCCAGGCCATTTTCTACAGAAGGACCACTGACATTCCTATTATAGTA
CAGGTCTGGAACAGCCGAAAATCTGTGATCAGTCTTGGGGCAGGTTACTCTGGATGCT
GACCCAGCGACTGCCGTGATCTGAAGTCTCTGTACCTGCGTAAGAAGGGTGGTCCAAC
GCCAAAGTCAAGCAAGGCCACATCAGCTTCAAGGTTATTTCCAGCGATGATCTCACTGAG
CTCTAA
    
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Clone variation with respect to NM_014289.3
 1026 t=>c

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_014289.2, NP_055104.2</u>
RefSeq Size:	3568 bp
RefSeq ORF:	1926 bp
Locus ID:	827
UniProt ID:	<u>Q9Y6Q1</u>
Cytogenetics:	Xq23
Domains:	C2, Calpain_III
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The protein encoded by this gene is highly expressed in the placenta. Its C-terminal region lacks any homology to the calmodulin-like domain of other calpains. The protein lacks critical active site residues and thus is suggested to be proteolytically inactive. The protein may play a role in tumor formation by inhibiting apoptosis and promoting angiogenesis. [provided by RefSeq, Nov 2009]</p>