

Product datasheet for **SC311301**

Calpastatin (CAST) (NM_001042444) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpastatin (CAST) (NM_001042444) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calpastatin
Synonyms:	BS-17; PLACK
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_001042444 edited
 CTAGTTCTAGATCGCGAGCGGCCGCCGCCGCCACCCATGAGCATGTGAGTGAAGGATGAGATGAGAAAAAGCAGCAA
 CCAGTGAATCGCCTTCCAAACCAGGAGAAAAAGGATCAGATGAGAAAAAGCAGCAA
 GCCTCGGCAGCAGTCAATCCTCCAGAACCTATGCTGGTGGAAACAGCCTCGGCCACCAAGG
 TGTCAGCTTCTCTGGTGAACCAAGTCTTCCAGTATGAATCCCACAGAAACCAAGG
 CTGTAAAAACAGAACCTGAGAAGAAGTCAAGTCAACCAAGCCAAAAAGCCTACCAAGC
 AGGCATCAGATACAGGAAGTAACGATGCTCACAATAAAAAAGCAGTTTCCAGATCAGCTG
 AACAGCAGCCATCAGAGAAATCAACAGAACCAAGACTAAACCACAAGACATGATTTCTG
 CTGGTGGAGAGAGTGTGCTGGTATCACTGCAATATCTGGCAAGCCGGTGACAAGAAAA
 AAGAAAAGAAATCATTAACCCAGCTGTGCCAGTTGAATCTAAACCGGATAAACCATCGG
 GAAAGTCAGGCATGGATGCTGCTTTGGATGACTTAATAGATACTTTAGGAGGACCTGAAG
 AAAGTGAAGAAGAAAATACAACGTATACTGGACCAGAAGTTTCAGATCCAATGAGTTCCA
 CCTACATAGAGGAATTGGTAAAAGAGAAGTCAACAATTCCTCCAAAATATAGGGAATAT
 TGGCTAAAAAGGAAGGGATCACAGGGCCTCCTGCAGACTTTCGAAACCCATAGGGCCAG
 ATGATGCTATAGACGCCCTTGTCATCTGACTTACCTGTGGGTGCGCTACAGCTGTGGAA
 AGAAAAGTGAAGAGGAAATCTACAGAAAGTTTAAAAGCTCAGTCAGCAGGGACAGTCA
 GAAGTGTGCTCCACCCCAAGAGAAAGAAAAGGTTGGAGAAGGATACAATGAGTGATC
 AAGCACTCGAGGCTCTGTGCGCTTCACTGGGCACCCGGCAAGCAGAACCTGAGCTCGACC
 TCCGCTCAATTAAGGAAGTCGATGAGGCAAAAGCTAAAGAAGAAAAACTAGAGAAGTGTG
 GTGAGGATGATGAAACAATCCCATCTGAGTACAGATTAACCAGCCACGGATAAAGATG
 GAAAACCACTATTGCCAGAGCCTGAAGAAAACCAAGCCTCGGAGTGAATCAGAAGTCA
 TTGATGAAGTTTTCAGAAGATTTGACCGGTCTGAATGTAAGAGAAACCATCTAAGCCAA
 CTGAAAAGACAGAAGAATCTAAGGCCGCTGCTCCAGCTCCTGTGTCGGAGGCTGTGTGTC
 GGACCTCCATGTGTAGTATACAGTCAGCACCCCTGAGCCGGCTACCTTGAAGGGCACAG
 TGCCAGATGATGCTGTAGAAGCCTTGGCTGATAGCCTGGGGAAAAAGGAAGCAGATCCAG
 AAGATGGAAAACCTGTGATGGATAAAGTCAAGGAGAAGGCCAAAGAAGAAGACCGTGAAA
 AGCTTGGTGAAAAAGAAGAAACAATTCCTCCTGATTATAGATTAGAAGAGGTCAAGGATA
 AAGATGGAAAGCCACTCCTGCCAAAAGAGTCTAAGGAACAGCTTCCACCCATGAGTGAAG
 ACTTCTCTGGATGCTTTGTCTGAGGACTTCTCTGGTCCACAAAATGCTTCATCTTTA
 AATTTGAAGATGCTAAACTTGTGCTGCCATCTCTGAAGTGGTTTCCCAAACCCAGCTT
 CAACGACCAAGCTGGAGCCCCACCCGATACCTCGCAGAGTGACAAAGACCTCGATG
 ATGCCTTGGATAAACTCTGACAGTCTAGGACAAAGGCAGCCTGACCCAGATGAGAACA
 AACCAATGGAAAGATAAAGTAAAGGAAAAAGCTAAAGCTGAACATAGAGACAAGCTTGGAG
 AAAGAGATGACACTATCCACCTGAATACAGACATCTCCTGGATGATAATGGACAGGACA
 AACCAGTGAAGCCACCTACAAAGAAATCAGAGGATTCAAAGAAACCTGCAGATGACCAAG
 ACCCCATTGATGCTCTCTCAGGAGATCTGGACAGCTGTCCCTCCACTACAGAAACCTCAC
 AGAACACAGCAAAGGATAAAGTGAAGAAGGCTGCTTCCAGCTCCAAGGCACCTAAGAAATG
 GAGGTAAGCGAAGGATTCAAGCAAGACAACAGAGGAACTTCCAAGCCAAAAGATGACT
 AAAGAAATACAAGTTAAGGTATCTGGTATCTGCATGTAATCTTCAGCTGGTGGATGGT
 GACTTTTGAAGAACAAAAGGCTTTGGCAACAGAAAACAATTGTTCTGGGTGAT

Restriction Sites: Please inquire

ACCN: NM_001042444

Insert Size: 2400 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:	NM_001042444.1 , NP_001035909.1
RefSeq Size:	4234 bp
RefSeq ORF:	2004 bp
Locus ID:	831
UniProt ID:	P20810
Cytogenetics:	5q15
Gene Summary:	<p>The protein encoded by this gene is an endogenous calpain (calcium-dependent cysteine protease) inhibitor. It consists of an N-terminal domain L and four repetitive calpain-inhibition domains (domains 1-4), and it is involved in the proteolysis of amyloid precursor protein. The calpain/calpastatin system is involved in numerous membrane fusion events, such as neural vesicle exocytosis and platelet and red-cell aggregation. The encoded protein is also thought to affect the expression levels of genes encoding structural or regulatory proteins. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jun 2010]</p>