

Product datasheet for **SC311308**

Calpastatin (CAST) (NM_001042440) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpastatin (CAST) (NM_001042440) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAST
Synonyms:	BS-17; PLACK
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001042440, the custom clone sequence may differ by one or more nucleotides

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ATGTCCCAGCCCGGCCAGAACGCCCGCCCTCCCCGGGCCCCGGCGAGCAGCCGCC
CGCCGCACCCATGAGCATGTCAGTGAAAAAACAGTGAATCGCCTTCAAACAGGAGAA
AAGAAAGGATCAGATGAGAAAAAGCAGCAAGCCTCGGCAGCAGTCAATCCTCAGAACC
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CACAATAAAAAAGCAGTTTCCAGATCAGCTGAACAGCAGCCATCAGAGAAATCAACAGAA
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GCAATATCTGGCAAGCCGGGTGACAAGAAAAAGAAAAGAAATCATTAAACCCAGCTGTG
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GTCACAATTCCTCCAAAATATAGGGAACATTGGCTAAAAAGGAAGGGATCACAGGGCCT
CCTGCAGACTCTTCGAAACCCATAGGGCCAGATGATGCTATAGACGCCTTGTCATCTGAC
TTCACCTGTGGGTGCGCCTACAGCTGCTGAAAAGAAAACCTGAAAAGAGGAATCTACAGAA
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TCTGAATGTAAAGAGAAAACCATCTAAGCCAACCTGAAAAGACAGAAGAATCTAAGGCCGCT
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CCCCCTGAGCCGCTACCTTGAAGGGCACAGTGCCAGATGATGCTGTAGAAGCCTTGCT
GATAGCCTGGGAAAAAGGAAGCAGATCCAGAAGATGGAACCTGTGATGGATAAAGTC
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CCTGATTATAGATTAGAAGAGGTCAGGATAAAGATGGAAGCCACTCCTGCCAAAAGAG
TCTAAGGAACAGCTTCCACCCATGAGTGAAGACTTCTTCTGGATGCTTTGTCTGAGGAC
TTCTCTGGTCCACAAAATGCTTCTCTTAAATTTGAAGATGCTAAACTTGCTGCTGCC
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GATACCTCGCAGAGTGACAAAGACCTCGATGATGCCTTGGATAAACTCTCTGACAGTCTA
GGCAAAGGCAGCCTGACCCAGATGAGAACAACCAATGGAAGATAAAGTAAAGGAAAAA
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AGACATCTCTGGATGATAATGGACAGGACAAACCAGTGAAGCCACCTACAAAGAATCA
GAGGATTCAAAGAAACCTGCAGATGACCAAGACCCATTGATGCTCTCTCAGGAGATCTG
GACAGCTGTCCCTCCACTACAGAAACCTCACAGAACACAGCAAAGGATAAGTGCAAGAAG
GCTGCTCCAGCTCCAAAGCACCTAAGAATGGAGGTAAGCGAAGGATTCAGCAAAGACA
ACAGAGGAAACTTCCAAGCCAAAAGATGACTAA

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Restriction Sites: Please inquire

ACCN: NM_001042440

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:	<u>NM_001042440.1</u> , <u>NP_001035905.1</u>
RefSeq Size:	4506 bp
RefSeq ORF:	2253 bp
Locus ID:	831
UniProt ID:	<u>P20810</u>
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>