

Product datasheet for **SC321543**

Caspase-7 (CASP7) (NM_033339) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase-7 (CASP7) (NM_033339) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caspase-7
Synonyms:	CASP-7; CMH-1; ICE-LAP3; LICE2; MCH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_033339.3
 AAAGGGGCCCCAGACCCTTGCTGCGGAGCGACGGAGAGAGACTGTGCCAGTCCCAGCCGC
 CCTACCGCCGTGGGAACGATGGCAGATGAGCAGGGCTGTATTGAAGAGCAGGGGGTTGAG
 GATTTCAGCAAATGAAGATTTCAGTGGATGCTAAGCCAGACCCGGTCTCTGTTGTACCGTCC
 CTCTTCAGTAAGAAGAAGAAAAATGTCACCATGCGATCCATCAAGACCACCCGGGACCGA
 GTGCCTACATATCAGTACAACATGAATTTTAAAAAGCTGGGCAAATGCATCATAATAAAC
 AACAGAAGCTTTGATAAAGTGACAGGTATGGGCGTTTCAAACCGAACAGACAAAGATGCC
 GAGGCGCTCTTCAAGTGCTTCCGAAGCCTGGGTTTTGACGTGATTGTCTATAATGACTGC
 TCTTGTGCCAAGATGCAAGATCTGCTTAAAAAGCTTCTGAAGAGGACCATACAAATGCC
 GCCTGCTTCGCCTGCATCCTCTTAAGCCATGGAGAAGAAAATGTAATTTATGGAAAAGAT
 GGTGTCACACCAATAAAGGATTTGACAGCCACTTTAGGGGGGATAGATGCAAAACCCCTT
 TTAGAGAAACCCAACTTCTTTCATTTCAGGCTTGCCGAGGGACCGAGCTTGATGATGGC
 ATCCAGGCCGACTCGGGGCCATCAATGACACAGATGCTAATCCTCGATAACAAGATCCCA
 GTGGAAGCTGACTTCTCTTCGCCTATTCCACGGTTCCAGGCTATTACTCGTGGAGGAGC
 CCAGGAAGAGGCTCCTGGTTTTGCAAGCCTCTGCTCCATCCTGGAGGAGCACGAAAA
 GACCTGGAATCATGCAGATCCTCACCAGGGTGAATGACAGAGTTGCCAGGCACTTTGAG
 TCTCAGTCTGATGACCCACACTTCCATGAGAAGAAGCAGATCCCCCTGTGTGGTCTCCATG
 CTCACCAAGGAACTCTACTTCAGTCAATAGCCATATCAGGGGTACATTCTAGCTGAGAAG
 CAATGGGTCACTCATTAAATGAATCACATTTTTTTATGCTCTTGAATATTCAGAAATTCT
 CCAGGATTTTAATTTTCAGGAAAATGATTGATTCAACAGGGAAGAAAACCTTCTGGTGCTG
 TCTTTTGTCTCTGAATTTTCAGAGACTTTTTTTATAATGTTATTCATTTGGTACTGTG
 TAACCTTCTCTTAAGATTAATTTTCTCTTTGTATGTCTGTTACCTTGTTAATAGACTTAA
 TACATGCAACAGAAGTGACTTCTGGAGAAAGCTCATGGCTGTCCACTGCAATTTGGTGG
 TAACAGTGGTAGAGTCATGTTTGCACTTGCAAAAAGAATCCCAATGTTTGACAAAAACAC
 AGCCAAGGGGATATTTACTGCTCTTTATTGCAGAATGTGGGTATTGAGTGTGATTTGAAT
 GATTTTTTCATTGGCTTAGGGCAGATTTTCATGCAAAAGTTCTCATATGAGTTAGAGGAGA
 AAAAGCTTAATGATTCTGATATGTATCCATCAGGATCCAGTCTGGAAAACAGAAACCAT
 CTAGGTGTTTCAACAGAGGGAGTTAATACAGGAAATTGACTTACATAGATGATAAAAGA
 GAAGCCAAACAGCAAGAAGCTGTTACCACACCCAGGGCTATGAGGATAATGGGAAGAGGT
 TTGGTTTCTGTGTCCAGTAGTGGGATCATCCAGAGGAGCTGGAACCATGGTGGGGGCTG
 CCTAGTGGGAGTTAGGACCACCAATGGATTGTGGAAAATGGAGCCATGACAAGAACAAA
 CCACTGACTGAGATGGAGTGAGCTGAGACAGATAAGAGAATACCTTGGTCTCACCTATCC
 TGCCCTCACATCTTCCACCAGCACCTTACTGCCAGGCCTATCTGGAAGCCACCTCACCA
 AGGACCTTGAAGAGCAAGGGACAGTGAGGCAGGAGAAGAACAAGAAATGGATGTAAGCC
 TGGCCCAATAATGTGAACATAAGTAATCACTAATGCTCAACAATTTATCCATTCAATCATT
 TATTCATTGGGTGTGATAGTCTATGTATGTGTAACAATCTGTTTTGGCTTTATGT
 GCAAAAATCTGTTATAGCTTTAAAATATATCTGGAACCTTTTATGATTATTTCAAGCCTTAT
 TTTGAGTAAATATTTGTTACTTTTAGTTCTATAAGTGAGGAAGAGTTTATGGCAAAGATT
 TTTGGCACTTTGTTTTCAAGATGGTGTATCTTTTGAATCTTGATAAATGACTGTTTTT
 TTCTGCCTAATAGTAACTGGTTAAAAACAATGTTTCATATTTATTGATTAATAATGTGG
 TTGCTTAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_033339

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_033339.3 , NP_203125.1
RefSeq Size:	2679 bp
RefSeq ORF:	912 bp
Locus ID:	840
UniProt ID:	P55210
Cytogenetics:	10q25.3
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Alzheimer's disease, Apoptosis
Gene Summary:	<p>This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. The precursor of the encoded protein is cleaved by caspase 3 and 10, is activated upon cell death stimuli and induces apoptosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]</p> <p>Transcript Variant: This variant (c, also known as gamma) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant d. Variants a, c and e encode the same isoform (alpha), which has a shorter N-terminus compared to isoform delta. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>