

## Product datasheet for SC305617

### Caspase-7 (CASP7) (NM\_033338) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase-7 (CASP7) (NM_033338) Human Untagged Clone
Tag:	Tag Free
Symbol:	CASP7
Synonyms:	CASP-7; CMH-1; ICE-LAP3; LICE2; MCH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305617 representing NM_033338. Blue=Insert sequence Red=Cloning site Green=Tag(s)

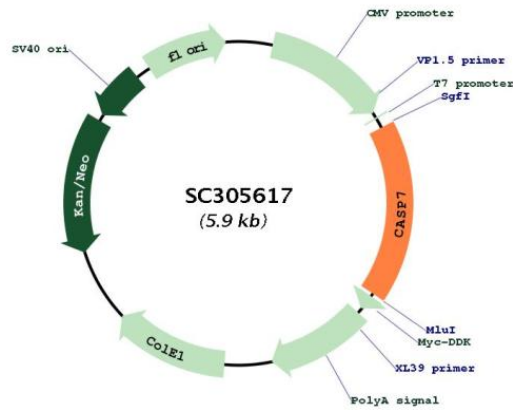
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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGACTGTGTTGGTTGGCCTCCAGGCAGGAAGTGGCACTTGGAAAAGAACACCAGCTGCGGTGGTAGC
AGTGGGATTTGTGCTTCTATGTTACCCAGATGGCAGATGATCAGGGCTGTATTGAAGAGCAGGGGGTT
GAGGATTCAGCAAATGAAGATTCAGTGGATGCTAAGCCAGACCGGTCTCGTTTGTACCGTCCCTCTTC
AGTAAGAAGAAGAAAAATGTCACCATGCGATCCATCAAGACCACCGGGACCGAGTGCCTACATACAG
TACAACATGAATTTTAAAAGCTGGCAAATGCATCATAATAACAACAAGAAGCTTGTAAAAGTGACA
GGTATGGGCGTTCGAAACGGAACAGACAAGATGCCGAGGCGCTCTCAAGTGTTCGGAAGCCTGGGT
TTTGACGTGATTGTCTATAATGACTGCTCTTGTGCCAAGATGCAAGATCTGCTTAAAAAGCTTCTGAA
GAGGACCATACAAATGCCGCTGCTTCGCCATCCTCTTAAGCCATGGAGAAGAAAATGTAATTTAT
GGGAAAGATGGTGTACACCAATAAAGGATTTGACAGCCACTTTAGGGGGATAGATGCAAAACCTT
TTAGAGAAACCCAACTTCTTTCATTACAGGCTTGCCGAGGGACCGAGCTTGATGATGGCATCCAGGCC
GACTCGGGGCCATCAATGACACAGATGCTAATCCTCGATACAAGATCCCAGTGGAAAGCTGACTTCTC
TTCGCCTATTCCACGGTTCAGGCTATTACTCGTGGAGGAGCCCAGGAAGAGGCTCCTGGTTTGTCAA
GCCCTCTGCTCCATCCTGGAGGAGCACGAAAAGACCTGGAAATCATGCAGATCCTCACCAGGGTGAAT
GACAGAGTTGCCAGGCACTTTGAGTCTCAGTCTGATGACCCACACTTCCATGAGAAGAAGCAGATCCCC
TGTGTGGTCTCCATGCTCACCAGGAAGCTACTTCAAGTCAATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM\_033338

Insert Size: 1011 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:**

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\\_033338.5](#)

RefSeq Size: 2714 bp

RefSeq ORF: 1011 bp

Locus ID: 840

UniProt ID: [P55210](#)  
Cytogenetics: 10q25.3  
Protein Families: Druggable Genome, Protease  
Protein Pathways: Alzheimer's disease, Apoptosis  
MW: 37.8 kDa

**Gene Summary:** 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]

Transcript Variant: This variant (d, also known as delta and alpha') represents the longest transcript and encodes 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.