

## Product datasheet for **SC308742**

### Caspase 10 (CASP10) (NM\_032977) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 10 (CASP10) (NM_032977) Human Untagged Clone
Tag:	Tag Free
Symbol:	CASP10
Synonyms:	ALPS2; FLICE-2; FLICE2; MCH4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC308742 representing NM\_032977.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAAATCTCAAGGTCAACATTGGTATTCCAGTTCAGATAAAAACTGTAAGTGAGCTTTCGTGAGAAG
CTTCTGATTATTGATTCAAACCTGGGGTCCAAGATGTGGAGAACCTCAAGTTTCTCTGCATAGGATTG
GTCCCAACAAGAAGCTGGAGAAGTCCAGCTCAGCCTCAGATGTTTTTGAACATCTCTTGGCAGAGGAT
CTGCTGAGTGAGGAAGACCCCTTCTCCTGGCAGAACTCCTCTATATCATACGGCAGAAGAAGCTGCTG
CAGCACCTCAACTGTACCAAAGAGGAAGTGAGCGACTGCTGCCACCCGACAAAGGGTTTCTCTGTTT
AGAAACCTGCTCTACGAAGTGTGAGAAGCATTGACTCAGAGAAGTAAAGGACATGATCTTCTCTCTG
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ATAGATGAAGATAATCTGACATGCCTGGAGACCTCTGCAAAACAGTTGTACCTAACTTTTGAGAAAC
ATAGAGAAATACAAAAGAGAGAAAGCTATCCAGATAGTGACACCTCCTGTAGACAAGGAAGCCGAGTGG
TATCAAGGAGAGGAAGAACTAGTTTCCCAAACAGATGTTAAGACATTCTTGAAGCCTTACCGCAGGAG
TCTTGGCAAAATAAGCATGCAGGTAGTAATGGTAACAGAGCCACAAATGGTGCACCAAGCCTGGTCTCC
AGGGGGATGCAAGGAGCATCTGCTAACACTCTAACTCTGAAACCAAGCACAAGAGGGCAGCTGTGTAC
AGGATGAATCGGAACCACAGAGGCTCTGTGTCATTGTCAACAACCACAGCTTTACCTCCCTGAAGGAC
AGACAAGGAACCCATAAAGATGCTGAGATCCTGAGTCAATGTGTTCCAGTGGCTTGGGTTACAGTGCAT
ATACACAATAATGTGACGAAAGTGGAAATGGAGATGGTCTGCAGAAGCAGAAGTGAATCCAGCCCAT
GCCGACGGGACTGCTTCGTGTTCTGTATTCTGACCCATGGGAGATTTGGAGCTGTCTACTTTCGGAT
GAGGCCCTCATTCCCATTCGGGAGATCATGTCTCACTTCACAGCCCTGCAGTGCCTAGACTGGTGAA
AAACCTAACTTTTTTCATCCAGGCCGCAAGGTGAAGAGATACAGCCTTCCGTATCCATCGAAGCA
GATGCTCTGAACCTGAGCAGGCCCACTTCCCTGCAGGACAGTATTCTTGGCAGGCTGACTTCCCTA
CTTGGTCTGGCCACTGTCCAGGCTATGTATCCTTTTCGGCATGTGGAGGAAGGCAGCTGGTATATTAG
TCTCTGTGTAATCATCTGAAGAAATGGTCCCAAGACATGAAGACATCTTATCCATCCTCACTGCTGTC
AACGATGATGTGAGTCGAAGAGTGGACAACAGGGAACAAGAAACAGATGCCCCAGCCTGCTTTCACA
CTAAGGAAAAAAGTAGTATTCCCTGTGCCCTGGATGCACTTTCATTATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_032977

**Insert Size:** 1569 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\\_032977.3](#)

**RefSeq Size:** 5906 bp

**RefSeq ORF:** 1569 bp

**Locus ID:** 843

**UniProt ID:** [Q92851](#)

**Cytogenetics:** 2q33.1

**Domains:** Peptidase\_C14, DED

**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** Apoptosis, RIG-I-like receptor signaling pathway

**MW:** 59 kDa

**Gene Summary:** This gene encodes a protein which is 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. This protein cleaves and activates caspases 3 and 7, and the protein itself is processed by caspase 8. Mutations in this gene are associated with type IIA autoimmune lymphoproliferative syndrome, non-Hodgkin lymphoma and gastric cancer. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Apr 2011]

Transcript Variant: This variant (1) encodes the longest isoform (1, also known as caspase-10/d). 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.