

Product datasheet for **SC109030**

Caspase 10 (CASP10) (NM_001230) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 10 (CASP10) (NM_001230) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caspase 10
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: >SC109030 representing NM_001230.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAATCTCAAGGTCAACATTGGTATTCAGTTTCAGATAAAAACTGTAAAGTGAGCTTTCTGTGAGAAG
CTTCTGATTATTGATTCAAACCTGGGGTCCAAGATGTGGAGAACCTCAAGTTTCTCTGCATAGGATTG
GTCCCCAACAGAAGCTGGAGAAGTCCAGCTCAGCCTCAGATGTTTTGAACATCTCTTGGCAGAGGAT
CTGCTGAGTGAGGAAGACCCCTTCTCCTGGCAGAACTCCTCTATATCATACGGCAGAAGAAGCTGCTG
CAGCACCTCAACTGTACCAAAGAGGAAGTGGAGCGACTGCTGCCACCCGACAAAGGGTTTCTCTGTTT
AGAAACCTGCTCTACGAAGTGTGAGAAGCATTGACTCAGAGAACTTAAAGGACATGATCTTCTCTCTG
AAAGACTCGCTTCCAAAACCTGAAATGACCTCCCTAAGTTTCTGGCATTCTAGAGAAACAAGTAAA
ATAGATGAAGATAATCTGACATGCCTGGAGGACCTCTGCAAAACAGTTGTACCTAACTTTTGAGAAAC
ATAGAGAAATACAAAAGAGAGAAAGCTATCCAGATAGTGACACCTCCTGTAGACAAGGAAGCCGAGTCG
TATCAAGGAGAGGAAGAACTAGTTTCCAAACAGATGTTAAGACATTCTTGAAGCCTTACCGAGGGCA
GCTGTGTACAGGATGAATCGGAACACAGAGGCCCTCTGTGTATTGTCAACAACACAGCTTTACCTCC
CTGAAGGACAGACAAGGAACCCATAAAGATGCTGAGATCCTGAGTCATGTGTTCCAGTGGCTTGGGTTT
ACAGTGCATATACACAATAATGTGACGAAAGTGGAAATGGAGATGGTCTGCAGAAGCAGAAGTGAAT
CCAGCCCATGCCGACGGGACTGCTTCGTGTTCTGTATTCTGACCCATGGGAGATTTGGAGCTGTCTAC
TCTTCGGATGAGGCCCTCATTCCCATTCGGGAGATCATGTCTCACTTCACAGCCCTGCAGTGCCTAGA
CTGGCTGAAAAACCTAACTCTTTTTCATCCAGGCCTGCCAAGGTGAAGAGATACAGCCTTCCGTATCC
ATCGAAGCAGATGCTCTGAACCTGAGCAGGCACCCACTTCCCTGCAGGACAGTATTCTGCCGAGGCT
GACTTCCCTACTTGGTCTGGCCACTGTCCAGGCTATGTATCCTTTCGGCATGTGGAGGAAGCAGCTGG
TATATTCACTCTGTGTAAATCATCTGAAGAAATTGGTCCCAAGACATGAAGACATCTTATCCATCCTC
ACTGCTGTCAACGATGATGTGAGTCGAAGAGTGGACAAACAGGGAACAAAGAAACAGATGCCCCAGCCT
GCTTTCACACTAAGGAAAAAACTAGTATTCCCTGTGCCCTGGATGCACTTTCATTATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001230

Insert Size: 1440 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_001230.4</u>
RefSeq Size:	5777 bp
RefSeq ORF:	1440 bp
Locus ID:	843
UniProt ID:	<u>Q92851</u>
Cytogenetics:	2q33.1
Domains:	Peptidase_C14, DED, CASc
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Apoptosis, RIG-I-like receptor signaling pathway
MW:	54.6 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks two in-frame coding exons compared to variant 1. This results in a shorter isoform (3, also known as Mch4 and caspase-10/a) missing an internal protein segment compared to isoform 1. 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>