

Product datasheet for **RC217592**

Caspase 10 (CASP10) (NM_001230) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 10 (CASP10) (NM_001230) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caspase 10
Synonyms:	ALPS2; FLICE-2; FLICE2; MCH4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC217592 representing NM_001230
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAATCTCAAGTCAACATTGGTATTCCAGTTCAGATAAAAAGTAAAGTGAGCTTTCTGTGAGAAGC
 TTCTGATTATTGATTCAAACCTGGGGTCCAAGATGTGGAGAACCCTCAAGTTTCTCTGCATAGGATTGGT
 CCCCAACAAGAAGCTGGAGAAGTCCAGCTCAGCCTCAGATGTTTTTGAACATCTCTTGGCAGAGGATCTG
 CTGAGTGAGGAAGACCCTTTCTCTGCGAGAAGTCTCTATATCATACGGCAGAAGAAGCTGCTGCAGC
 ACCTCAACTGTACCAAAGAGGAAGTGGAGCGACTGCTGCCACCCGACAAAGGGTTTCTGTGTTAGAAA
 CCTGCTCTACGAAGTGTGAGAAGCATTGACTCAGAGAAGTAAAGGACATGATCTTCTCTGAAAGAC
 TCGCTTCCAAAAGTAAATGACCTCCCTAAGTTTCTGGCATTCTAGAGAAACAAGGTAAGATAGATG
 AAGATAATCTGACATGCCTGGAGACCTCTGCAAAACAGTTGTACCTAACTTTGAGAAACATAGAGAA
 ATACAAAAGAGAGAAAGCTATCCAGATAGTGACACCTCTGTAGACAAGGAAGCCGAGTCGTATCAAGGA
 GAGGAAGAAGTAGTTTCCCAAACAGATGTTAAGACATTCTTGAAGCCTTACCGAGGGCAGCTGTGTACA
 GGATGAATCGGAACACAGAGGCCTCTGTGTCATTGTCAACAACACAGCTTTACCTCCCTGAAGGACAG
 ACAAGGAACCCATAAAGATGCTGAGATCCTGAGTCATGTGTTCCAGTGGCTTGGGTTACAGTGCATATA
 CACAATAATGTGACGAAAGTGGAAATGGAGATGGTCTGCAGAAGCAGAAGTGAATCCAGCCCATGCCG
 ACGGGGACTGCTTCGTGTTCTGTATTCTGACCCATGGGAGATTTGGAGCTGTCTACTCTTCGGATGAGGC
 CCTCATTCCCATTCCAGGCCTGCCAAGGTGAAGAGATACAGCCTCCGTATCCATCGAAGCAGATGCTC
 TGAACCTGAGCAGGCACCCACTTCCCTGCAGGACAGTATTCTGCCGAGGCTGACTTCTACTTCTGTCT
 GGCCACTGTCCCAGGCTATGTATCTTTTCGGCATGTGGAGGAAGGCAGCTGGTATATTCAGTCTCTGTGT
 AATCATCTGAAGAAATTGGTCCCAGACATGAAGACATCTATCCATCCTCACTGTGTCAACGATGATG
 TGAGTCGAAGAGTGGACAAAAGGGAACAAAGAAACAGATGCCCCAGCCTGCTTTCACACTAAGGAAAAA
 ACTAGTATTCCCTGTGCCCTGGATGCACTTTCATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217592 representing NM_001230
 Red=Cloning site Green=Tags(s)

MKSQGHQHWYSSSDKNCKVSFRELKLIIDSNLGVQDVENLKFLCIGLVPNKKLEKSSASDVFEHLLAEDL
 LSEEDPFFLAELLYIIRQKLLQHLNCTKEEVERLLPTRQRVSLFRNLLYELSEGIDSENKDMIFLLKD
 SLPKTEMTSLSFLAFLEKQKIDEDNLTCLEDLCKTVVPKLLRNIKEYKREKAIQIVTPVDKEAESYQG
 EEELVSTQDVKTFLALPRAAVYRMNRNHRGLCVIVNHSFTSLKDRQGTGTHKDAEILSHVFQWLGFVHI
 HNNVTKVEMEMVLQKQKCNPAHADGDCFVFCILTHGRFGAVYSSDEALPIREIMSHFTALQCPRLAEP
 KLFFIQACQGEIQQPSVIEADALNPEQAPTSLSQDSIPAEDFLLGLATVPGYVFRHVEEGSWYIQLSC
 NHLKKLVPRHEDILSILTAVNDDVSRVDKQGTQKQMPQPAFTLRKKLVFPVPLDALSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2627_a06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001230

ORF Size: 1437 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

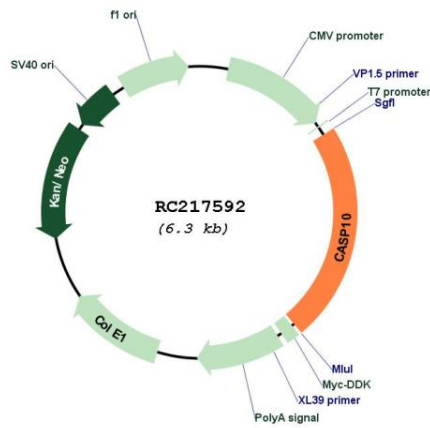
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001230.5
RefSeq Size:	3651 bp
RefSeq ORF:	1440 bp
Locus ID:	843
UniProt ID:	Q92851
Cytogenetics:	2q33.1
Domains:	Peptidase_C14, DED, CASc
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Apoptosis, RIG-I-like receptor signaling pathway
MW:	54.4 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]

Product images:



Circular map for RC217592