

## Product datasheet for **RC234218**

### Caspase 10 (CASP10) (NM\_001206542) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 10 (CASP10) (NM_001206542) 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)



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**ORF Nucleotide Sequence:**

>RC234218 representing NM\_001206542  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAATCTCAAGTCAACATTGGTATTCCAGTTCAGATAAAAACTGTAAGTGAGCTTTCGTGAGAAGC  
 TTCTGATTATTGATTCAACCTGGGGTCCAAGATGTGGAGAACCCTCAAGTTTCTCTGCATAGGATTGGT  
 CCCCAACAAGAAGCTGGAGAAGTCCAGCTCAGCCTCAGATGTTTTTGAACATCTCTTGGCAGAGGATCTG  
 CTGAGTGAGGAAGACCCTTCTCTCTGGCAGAACTCCTCTATATCATACGGCAGAAGAAGCTGCTGCAGC  
 ACCTCAACTGTACCAAAGAGGAAGTGGAGCGACTGCTGCCACCCGACAAAGGGTTTCTCTGTTAGAAA  
 CCTGCTCTACGAAGTGTGAGAAGCATTGACTCAGAGAAGTAAAGGACATGATCTTCTCTGAAAGAC  
 TCGCTTCCAAAAGTAAATGACCTCCCTAAGTTTCTGGCATTCTAGAGAAACAAGGTAAGATAGATG  
 AAGATAATCTGACATGCCTGGAGACCTCTGCAAAACAGTTGTACCTAACTTTGAGAAACATAGAGAA  
 ATACAAAAGAGAGAAAGCTATCCAGATAGTGACACCTCCTGTAGACAAGGAAGCCGAGTCGTATCAAGGA  
 GAGGAAGAACTAGTTTCCAAAACAGATGTTAAGACATTCTTGAAGCCTTACCGAGGGCAGCTGTGTACA  
 GGATGAATCGGAACACAGAGGCCTCTGTGTCATTGTCAACAACCACAGCTTTACCTCCCTGAAGGACAG  
 ACAAGGAACCCATAAAGATGCTGAGATCCTGAGTCATGTGTTCCAGTGGCTTGGGTTACAGTGCATATA  
 CACAATAATGTGACGAAAGTGGAAATGGAGATGGTCTGCAGAAGCAGAAGTGAATCCAGCCCATGCCG  
 ACGGGGACTGCTTCGTGTTCTGTATTCTGACCCATGGGAGATTTGGAGCTGTCTACTCTTCGGATGAGGC  
 CCTCATTCCCATTCCGGGAGATCATGTCTCACTTACAGCCCTGCAGTGCCTAGACTGGCTGAAAAACCT  
 AAACCTTTTTTCCATCCAGGCCTGCCAAGGTGAAGAGATACAGCCTCCGTATCCATCGAAGCAGATGCTC  
 TGAACCTGAGCAGGCACCCACTTCCCTGCAGGACAGTATTCTGCCGAGGCTGACTTCTACTTCTGCTCT  
 GGCCACTGTCCCAGGCTATGTATCCTTTTCGGCATGTGGAGGAAGGCAGCTGGTATATTCAGTCTCTGTGT  
 AATCATCTGAAGAAATTGGTCCCAGGATGCTGAAATTTCTGAAAAGACAATGGAATCAGGGGCAGGA  
 AGAGAACAGTGTGGGGTCTAACAGATCTCAGCAACCTCCCTGCCACGGCCATCTCTGCGCAGACACC  
 TCGACCCCCATGCGCAGGTGGAGCAGCGTTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234218 representing NM\_001206542  
 Red=Cloning site Green=Tags(s)

MKSQGHWHYSSSDKNCKVSFRELKLIIDSNLGVQDVENLKFLCIGLVPNKLEKSSASDVFEHLLAEDL  
 LSEEDPFFLAELLYIIRQKLLQHLNCTKEEVERLLPTRQRVSLFRNLLYELSEGIDSENKDMIFLLKD  
 SLPKTEMTSLSFLAFLEKQKIDEDNLTCLEDLCKTVVPKLLRNIKEYKREKAIQIVTPVDKEAESYQG  
 EEELVSTQDVKTFLEALPRAAVYRMNRNHRGLCVIVNHSFTSLKDRQGTGTHKDAEILSHVFQWLGFVHI  
 HNNVTKVEMEMVLQKQKCNPAHADGDCVFCILTHGRFGAVYSSDEALPIREIMSHFTALQCPRLAEKP  
 KLFFIQACQGEIQQPSVIEADALNPEQAPTSQDSIPAEDFLLGLATVPGYVFRHVEEGSWYIQLSLC  
 NHLKLVPRMLKFLKTEIRGRKRTVWGAQKISATSLPTAISAQTPRPPMRRWSSVS

**TR**TRPLEQ**KL**I**SEEDLA**AND**ILDYKDDDDKV**

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001206542

**ORF Size:** 1434 bp

**OTI Disclaimer:** 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\\_001206542.2](#)

**RefSeq Size:** 2178 bp

**RefSeq ORF:** 1437 bp

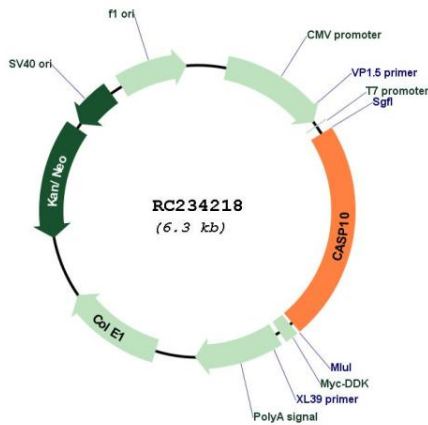
**Locus ID:** 843

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

**Cytogenetics:** 2q33.1  
**Protein Families:** Druggable Genome, Protease  
**Protein Pathways:** Apoptosis, RIG-I-like receptor signaling pathway  
**MW:** 55 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 RC234218