

Product datasheet for **RG234218**

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:	TurboGFP
Symbol:	Caspase 10
Synonyms:	ALPS2; FLICE-2; FLICE2; MCH4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234218 representing NM_001206542
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAATCTCAAGTCAACATTGGTATTCCAGTTCAGATAAAAACTGTAAGTGAGCTTTCGTGAGAAGC
 TTCTGATTATTGATTCAACCTGGGGTCCAAGATGTGGAGAACCCTCAAGTTTCTCTGCATAGGATTGGT
 CCCCAACAAGAAGCTGGAGAAGTCCAGCTCAGCCTCAGATGTTTTTGAACATCTCTTGGCAGAGGATCTG
 CTGAGTGAGGAAGACCCTTCTCTCTGGCAGAACTCCTCTATATCATACGGCAGAAGAAGCTGCTGCAGC
 ACCTCAACTGTACCAAAGAGGAAGTGGAGCGACTGCTGCCACCCGACAAAGGGTTTCTCTGTTAGAAA
 CCTGCTCTACGAAGTGTGAGAAGCATTGACTCAGAGAAGTAAAGGACATGATCTTCTCTGAAAGAC
 TCGCTTCCAAAAGTAAATGACCTCCCTAAGTTTCTGGCATTCTAGAGAAACAAGGTAAGATAGATG
 AAGATAATCTGACATGCCTGGAGACCTCTGCAAAACAGTTGTACCTAACTTTGAGAAACATAGAGAA
 ATACAAAAGAGAGAAAGCTATCCAGATAGTGACACCTCCTGTAGACAAGGAAGCCGAGTCGTATCAAGGA
 GAGGAAGAACTAGTTTCCCAAACAGATGTTAAGACATTCTTGAAGCCTTACCGAGGGCAGCTGTGTACA
 GGATGAATCGGAACACAGAGGCCTCTGTGTCATTGTCAACAACACAGCTTTACCTCCCTGAAGGACAG
 ACAAGGAACCCATAAAGATGCTGAGATCCTGAGTCATGTGTTCCAGTGGCTTGGGTTACAGTGCATATA
 CACAATAATGTGACGAAAGTGGAAATGGAGATGGTCTGCAGAAGCAGAAGTGAATCCAGCCCATGCCG
 ACGGGGACTGCTTCGTGTTCTGTATTCTGACCCATGGGAGATTTGGAGCTGTCTACTCTTCGGATGAGGC
 CCTCATTCCCATTCCAGGCCTGCCAAGGTGAAGAGATACAGCCTCCGTATCCATCGAAGCAGATGCTC
 TGAACCTGAGCAGGCACCCACTCCCTGCAGGACAGTATTCTGCCGAGGCTGACTTCTACTTGGTCT
 GGCCACTGTCCCAGGCTATGTATCCTTTCCGATGTGGAGGAAGGCAGCTGGTATATTCAGTCTCTGTGT
 AATCATCTGAAGAAATTGGTCCCAGGATGCTGAAATTTCTGAAAAGACAATGGAATCAGGGGACAGGA
 AGAGAACAGTGTGGGGTCTAAACAGATCTCAGCAACCTCCCTGCCACGGCCATCTCTGCGCAGACACC
 TCGACCCCATGCGCAGGTGGAGCAGCGTTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234218 representing NM_001206542
 Red=Cloning site Green=Tags(s)

MKSQGHQWYSSDKNCKVSFRELKLIIDSNLGVQDVENLKFLCIGLVPNKKLEKSSASDVFEHLLAEDL
 LSEEDPFFLAELLYIIRQKLLQHLNCTKEEVERLLPTRQRVSLFRNLLYELSEGIDSENKDMIFLLKD
 SLPKTEMTLSFLAFLEKQKIDEDNLTCLEDLCKTVVPKLLRNIEKYKREKAIQIVTPPVKDEAESYQG
 EEELVSQTDVKTFLAALPRAAVYRMNRNHRGLCVIVNHSFTSLKDRQGTGTHKDAEILSHVFQWLGFTVHI
 HNNVTKVEMEMVLQKQKCNPAHADGDCFVFCILTHGRFGAVYSSDEALPIREIMSHFTALQCPRLAEKP
 KLFFIQACQGEIQQPSVSIADALNPEQAPTSLQDSIPAEADFLGLATVPGYVFRHVEEGSWYIQLSC
 NHLKKLVPRMLKFLEKTMEIRGRKRTVWGAKQISATSLPTAISAQTPRPPMRRWSSVS

TRTRPLE - GFP Tag - V

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](#)

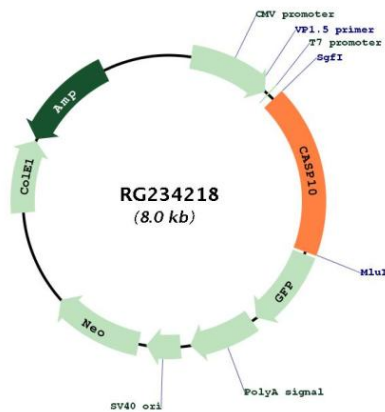
Cytogenetics: 2q33.1

Protein Families: Druggable Genome, Protease

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

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 RG234218