

Product datasheet for **RG224500**

Caspase 10 (CASP10) (NM_032974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 10 (CASP10) (NM_032974) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CASP10
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:

>RG224500 representing NM_032974
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAATCTCAAGGTCAACATTGGTATTCCAGTTCAGATAAAAACTGTAAGTGAGCTTTCTGTGAGAAGC
 TTCTGATTATTGATTCAACCTGGGGTCCAAGATGTGGAGAACCCTCAAGTTTCTCTGCATAGGATTGGT
 CCCCACAAGAAGCTGGAGAAGTCCAGCTCAGCCTCAGATGTTTTTGAACATCTCTTGGCAGAGGATCTG
 CTGAGTGAGGAAGACCCTTTCTTCTGGCAGAACTCCTCTATATCATACGGCAGAAGAAGCTGCTGCAGC
 ACCTCAACTGTACCAAAGAGGAAGTGGAGCGACTGCTGCCACCCGACAAAGGGTTTCTGTGTTAGAAA
 CCTGCTTACGAACTGTGAGAAGCATTGACTCAGAGAACTTAAAGGACATGATCTTCTTCTGAAAGAC
 TCGCTTCCAAAACCTGAAATGACCTCCCTAAGTTTCTGGCATTCTAGAGAAAACAAGGTAAGATAGATG
 AAGATAATCTGACATGCCTGGAGGACCTCTGCAAAACAGTTGTACCTAAACTTTTGAAGAACATAGAGAA
 ATACAAAAGAGAGAAAGCTATCCAGATAGTGACACCTCCTGTAGACAAGGAAGCCGAGTCGTATCAAGGA
 GAGGAAGAAGTAGTTTCCCAAACAGATGTTAAGACATTCTTGAAGCCTTACCGCAGGAGTCTGGCAAA
 ATAAGCATGCAGGTAGTAATGGTAAACAGAGCCACAATGGTGCACCAAGCCTGGTCTCCAGGGGGATGCA
 AGGAGCATCTGCTAACACTCTAAACTCTGAAACCAGCACAAAAGAGGGCAGCTGTGTACAGGATGAATCGG
 AACCACAGAGGCCTCTGTGTCAATTGTCAACAACCACAGCTTTACCTCCCTGAAGGACAGACAAGGAACCC
 ATAAGATGCTGAGATCCTGAGTCATGTGTTCCAGTGGCTTGGGTTACAGTGCATATACACAATAATGT
 GACGAAAGTGGAAATGGAGATGGTCTGCAGAAGCAGAAGTGAATCCAGCCATGCCGACGGGGACTGC
 TTCGTGTTCTGTATTCTGACCCATGGGAGATTTGGAGCTGTCTACTCTTCGGATGAGGCCCTCATTCCCA
 TTCGGGAGATCATGTCTCACTTACAGCCCTGCAGTGCCTAGACTGGCTGAAAAACCTAAACTCTTTT
 CATCCAGGCCTGCCAAGGTGAAGAGATACAGCCTTCCGTATCCATCGAAGCAGATGCTCTGAACCTGAG
 CAGGCACCCACTTCCCTGCAGGACAGTATTCTGCCGAGGCTGACTTCTACTTGGTCTGCCACTGTCC
 CAGGCTATGTATCCTTTCGGCATGTGGAGGAAGGCAGCTGGTATATTAGTCTCTGTGTAATCATCTGAA
 GAAATTGGTCCCAAGGATGCTGAAATTTCTGAAAAGACAATGAAATCAGGGGCAGGAAGAGAACAGTG
 TGGGGTGTAAACAGATCTCAGCAACCTCCCTGCCACGGCCATCTCTGCGCAGACACCTCGACCCCA
 TGCGCAGGTGGAGCAGCGTTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224500 representing NM_032974
 Red=Cloning site Green=Tags(s)

MKSQGHWHYSSSDKNCKVSFREKLLIIDSNLGVQDVENLKFLCIGLVPNKKLEKSSASDVFEHLLAEDL
 LSEEDPFFLAELLYIIRQKLLQHLNCTKEEVERLLPTRQRVSLFRNLLYELSEGIDSENLDKMIFFLLKD
 SLPKTEMTSLFLAFLEKQKIDEDNLTLEDLCKTVVPKLLRNIEKYKREKAIQIVTPVDKEAESYQG
 EEELVSQTDVKTFLALPQESWQNKHAGSNGNRATNGAPSLVSRGMQASANTLNSETSTKRAAVYRMNR
 NHRGLCVIVNHSFTSLKDRQGHKDAEILSHVFQWLGFTVHIHNNVTKVEMEMVLQKQKCNPAHADGDC
 FVFCILTHGRFGAVYSSDEALIPREIMSHFTALQCPRLAEKPKLFFIQACQGEIQQPSVSIADALNPE
 QAPTSLQDSIPAADFLGLATVPGYVFRHVEEGSWYIQLCNHLKLVPRMLKFEKTMEIRGRKRTV
 WGAKQISATSLPTAISAQTPRPPMRRWSSVS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_032974
ORF Size:	1563 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:	<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:	NM_032974.5
RefSeq Size:	2054 bp
RefSeq ORF:	1566 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]