

Product datasheet for **RC232351**

Caspase 10 (CASP10) (NM_032976) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 10 (CASP10) (NM_032976) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CASP10
Synonyms:	ALPS2; FLICE-2; FLICE2; MCH4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232351 representing NM_032976 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAATCTCAAGGTCAACATTGGTATTCCAGTTCAGATAAAAACTGTAAAGTGAGCTTTCGTGAGAAGC
TTCTGATTATTGATTCAAACCTGGGGTCCAAGATGTGGAGAACCTCAAGTTTCTCTGCATAGGATTGGT
CCCCAACAGAAGCTGGAGAAGTCCAGCTCAGCCTCAGATGTTTTGAACATCTCTTGGCAGAGGATCTG
CTGAGTGAGGAAGACCCTTCTTCTGGCAGAACTCCTCTATATCATACGGCAGAAGAAGCTGCTGCAGC
ACCTCAACTGTACCAAAGAGGAAGTGGAGCGACTGCTGCCACCCGACAAAGGGTTTCTCTGTTAGAAA
CCTGCTCTACGAACTGTGAGAAGCATTGACTCAGAGAACTTAAAGGACATGATCTTCTCTGAAAGAC
TCGCTTCCAAAACCTGAAATGACCTCCCTAAGTTTCTGGCATTCTAGAGAAACAAGGTAAGATAGATG
AAGATAATCTGACATGCCTGGAGGACCTCTGCAAAACAGTTGTACCTAACTTTTGAGAAACATAGAGAA
ATACAAAAGAGAGAAAGCTATCCAGATAGTGACACCTCCTGTAGACAAGGAAGCCGAGTCGATCAAGGA
GAGGAAGAAGTATTTCCAAACAGATGTTAAGACATTCTTGAAGCCTTACCGCAGGAGTCTGGCAAA
ATAAGCATGCAGGTAGTAATGAGGGCAGCTGTGTACAGGATGAATCGGAACACAGAGGCCTCTGTGCA
TTGTCAACAACACAGCTTTACCTCCCTGAAGGACAGACAAGGAACCCA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232351 representing NM_032976
Red=Cloning site Green=Tags(s)

MKSQGGHWHYSSSDKNCKVSVFREKLLIIDSNLGVQDVENLKFLCIGLVPNKKLEKSSASDVFEHLLAEDL
 LSEEDPFFLAELLYIIRQKLLQHLNCTKEEVERLLPTRQRVSLFRNLLYELSEGIDSENKDMIFLLKD
 SLPKTEMTSLSFLAFLEKQGGKIDEDNLTCLEDLCKTVVPKLLRNIEKYKREKAIQIVTPVDKEAESYQG
 EEELVSQTDVKTFLAALPQESWQNKHAGSNEGSCVQDESEPRPLCHCQQPQLYLPEGQTRNP

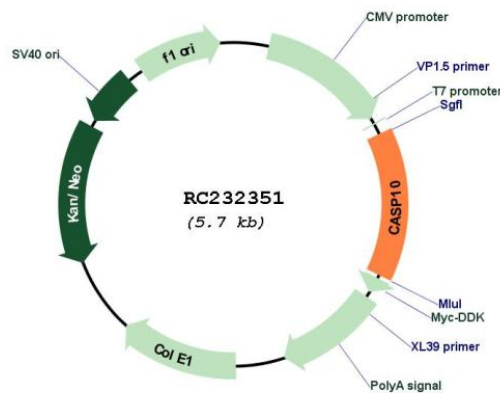
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_032976
ORF Size: 819 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_032976.3 , NP_116758.1
RefSeq Size:	5814 bp
RefSeq ORF:	822 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:	31.9 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]