

Product datasheet for RC233951

Caspase-7 (CASP7) (NM_001267057) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase-7 (CASP7) (NM_001267057) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caspase-7
Synonyms:	CASP-7; CMH-1; ICE-LAP3; LICE2; MCH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233951 representing NM_001267057 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGTGCGGGGACACGGGTGCGTTTGGGCTCTTCCACCCTGCGGAGCGCACTACCCGAGCCAGGGGC
GGTGAAGCCCCCGGCCCTACCCAGGGCGGCTCCTCCCTCCGAGCGCCGAGACTTTTAGTTTCGCT
TTCGCTAAAGGGGCCAGACCTTGTGCGGAGCGACGGAGAGAGACTGTGCCAGTCCCAGCCGCCCTA
CCGCCGTGGGAACGATGGCAGATGATCAGGGCTGTATTGAAGAGCAGGGGTTGAGGATTCAGCAAATGA
AGATTCAGTGGATGCTAAGCCAGACCGGTCTCGTTTGTACCGTCCCTCTCAGCCCTGACTCTGGAAC
TTTATATTTACCAGTAAGAAGAAGAAAAATGTCACCATGCGATCCATCAAGACCACCCGGACCGAGTG
CCTACATATCAGTACAACATGAATTTTGAAGGCTGGGCAAATGCATCATAATAACAACAAGAACTTTG
ATAAAGTGACAGGTATGGGCGTTCGAAACGGAACAGACAAAGATGCCGAGGCGCTCTTCAAGTGCTCCG
AAGCCTGGGTTTTGACGTGATTGTCTATAATGACTGCTCTTGTGCCAAGATGCAAGATCTGCTTAAAAA
GCTTCTGAAGAGGACCATACAAATGCCGCTGCTTCGCTGCATCCTCTTAAGCCATGGAGAAGAAAAATG
TAATTTATGGGAAAGATGGTGTACACCAATAAAGGATTTGACAGCCACTTTAGGGGGATAGATGCAA
AACCTTTTAGAGAAACCAAACTCTTCTTCATCAGGCTTCCGAGGGACCGAGCTTGATGATGGCATC
CAGGCCGACTCGGGCCCATCAATGACACAGATGCTAATCCTCGATACAAGATCCAGTGGAAAGCTGACT
TCCTCTTCGCTATTCCACGGTTCCAGGCTATTACTCGTGAGGAGCCAGGAAGAGGCTCTGGTTTGT
GCAAGCCCTCTGCTCCATCCTGGAGGAGCACGAAAAGACCTGGAATCATGCAGATCCTACCAGGGTG
AATGACAGAGTTGCCAGGCACTTTGAGTCTCAGTCTGATGACCCACACTCCATGAGAAGAAGCAGATCC
CCTGTGTGGTCTCCATGCTCACCAAGGAAGTCTACTTCAGTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233951 representing NM_001267057
 Red=Cloning site Green=Tags(s)

MRAGTRVALGSSTPAERTTPSQGRCKPRPALPRAAPPSAAPRLLVSLSLKGPQTLAAERRRETVPVPAAL
 PPWERWQMIRAVLKSRGLRIQQMKIQWMLSQTGPRLYRPSSAPDSGTL YFTSKKKKNVTMRSIKTTRDRV
 PTYQYNMNFELGKCI IINNKNFDKVTGMGVRNGTDKDAEALFKCFRSLGFDVIVYNDSCSAKMQDLLKK
 ASEEDHTNAACFACILLSHGEENVYKGDGVTPIKDLTAHFRGDRCKTLLEKPKLFFIQACRGTELDGDI
 QADSGPIINDTDANPRYKIPVEADFLFAYSTVPGYYSWRSPGRGSWFVQALCSILEEHGKDL EIMQILTRV
 NDRVARHFESQSDDPHFHEKKQIPCVVSM LTKELYFSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001267057

ORF Size: 1164 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_001267057.1](#), [NP_001253986.1](#)

RefSeq Size: 2638 bp

RefSeq ORF: 1167 bp

Locus ID: 840

UniProt ID: [P55210](#)

Cytogenetics: 10q25.3

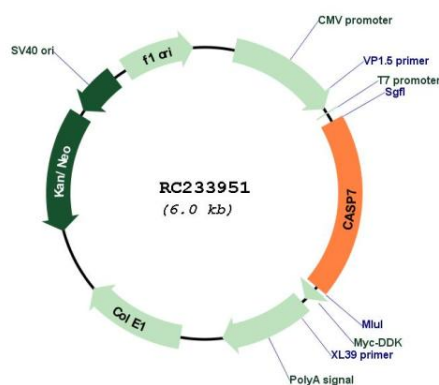
Protein Families: Druggable Genome, Protease

Protein Pathways: Alzheimer's disease, Apoptosis

MW: 44.2 kDa

Gene Summary: This gene encodes 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. The precursor of the encoded protein is cleaved by caspase 3 and 10, is activated upon cell death stimuli and induces apoptosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

Product images:



Circular map for RC233951