

Product datasheet for RG221493

Caspase-7 (CASP7) (NM 033340) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Caspase-7 (CASP7) (NM_033340) Human Tagged ORF Clone

Tag: TurboGFP Symbol: Caspase-7

Synonyms: CASP-7; CMH-1; ICE-LAP3; LICE2; MCH3

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG221493 representing NM_033340

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCAGATGATCAGGGCTGTATTGAAGAGCAGGGGGTTGAGGATTCAGCAAATGAAGATTCAGTGGATG
CTAAGCCAGACCGGTCCTCGTTTGTACCGTCCCTCTTCAGTAAGAAGAAGAAAAATGTCACCATGCGATC
CATCAAGACCACCCGGGACCGAGTGCCTACATATCAGTACAACATGAATTTTGAAAAAGCTGGGCAAATGC
ATCATAATAAACAACAAGAACTTTGATAAAGTGACAGGTATGGGCGTTCGAAACGGAACAGACAAAGATG
CCGAGGCGCTCTTCAAGTGCTTCCGAAGCCTGGGTTTTGACGTGATTGTCTATAATGACTGCTCTTGTGC
CAAGATGCAAGATCTGCTTAAAAAAAGCTTCTGAAGAGGACCATACAAATGCCGCCTGCTTCGCCTGCATC
CTCTTAAGCCATGGAGAAAATATGGAATCTTGCTCTGTCACCCAGGCTGGAGTGCAGCGGCGTGATC
TCGGAAGACTGCAACCTCCACCTCCCAGGCTTGCCGAGGGACCGAGCTTGATGATGCATCCAGGCCGAC
TCGGGGCCCATCAATGACACAGATGCTAATCCTCGATACAAGATCCCAGTGGAAGCTGACTTCCTCTTCG
CCTATTCCACGGTTCCAGGCTATTACTCGTGGAGGAGCCCAGGAAGAGGCTCCTGGTTTGTGCAAGCCCT
CTGCTCCATCCTGGAGGAGCACCGAAAAGACCTGGAAATCATGCAGATCCTCACCAGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221493 representing NM_033340

Red=Cloning site Green=Tags(s)

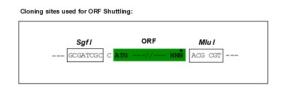
MADDQGCIEEQGVEDSANEDSVDAKPDRSSFVPSLFSKKKKNVTMRSIKTTRDRVPTYQYNMNFEKLGKC IIINNKNFDKVTGMGVRNGTDKDAEALFKCFRSLGFDVIVYNDCSCAKMQDLLKKASEEDHTNAACFACI LLSHGEENMESCSVTQAGVQRRDLGRLQPPPPRLAEGPSLMMASRPTRGPSMTQMLILDTRSQWKLTSSS PIPRFQAITRGGAQEEAPGLCKPSAPSWRSTEKTWKSCRSSPG

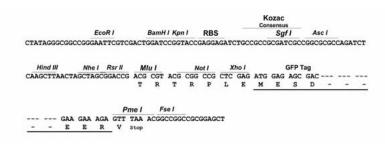
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_033340

ORF Size: 759 bp

OTI Annotation:

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

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

variants is recommended prior to use. <u>More into</u>

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: <u>NM 033340.4</u>

RefSeq Size:2433 bpRefSeq ORF:762 bpLocus ID:840

UniProt ID: P55210
Cytogenetics: 10q25.3

Domains: Peptidase_C14

Protein Families: Druggable Genome, Protease
Protein Pathways: Alzheimer's disease, Apoptosis

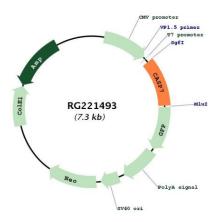
Gene Summary: This gene encodes a member of the cysteine-aspartic acid protease (caspase) family.

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 RG221493