

Product datasheet for **RG221381**

Caspase-6 (CASP6) (NM_032992) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Caspase-6 (CASP6) (NM_032992) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CASP6
Synonyms: MCH2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221381 representing NM_032992
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCGGCCTCGGGCTCCGCAGGGGGCACCCGGCAGTGTCAACTGTTAGCCACGCAGATGCCGATT
GCTTTGTGTGTCTTCTGAGCCATGGCGAAGGCAATCACATTTATGCATATGATGCTAAAATCGAAAT
TCAGACATTAAGTGGCTTGTCAAAGGAGACAAGTGTACAGCCTGGTTGGAAAACCAAGATATTTATC
ATTCAGGCATGTCGGGAAACCAGCACGATGTGCCAGTCATTCTTTGGATGTAGTAGATAATCAGACAG
AGAAGTTGGACCAACATAACTGAGGTGGATGCAGCCTCCGTTTACACGCTGCCTGCTGGAGCTGACTT
CCTCATGTGTTACTCTGTTGCAGAAGGATATTATTCTACCGGAAACTGTGAACGGCTCATGGTACATT
CAAGATTTGTGTGAGATGTTGGGAAAATATGGCTCCTCCTTAGAGTTCACAGAATCCTCACACTGGTGA
ACAGGAAAGTTTCTCAGCGCCGAGTGGACTTTTGCAAAGACCCAAGTGAATTGGAAAGAAGCAGGTTCC
CTGTTTTCCTCAATGCTAACTAAAAGCTGCATTTCTTTCCAAAATCTAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221381 representing NM_032992
Red=Cloning site Green=Tags(s)

MSSASGLRRGHPAVSTVSHADADCFVCFVLSHGEGNHIYAYDAKIEIQTLTGLFKGDKCHSLVGPKPFI
IQACRGNQHDVPIPLDVVDNQTEKLDNTITEVDAASVYTL PAGADFLMCYSVAEGYSHRETVNGSWYI
QDLCEMLGKYGSSLEFTELLTLVNRKVSQRRVDFCKDPSAIGKKQVPCFASMLTKKLHFFPKSN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

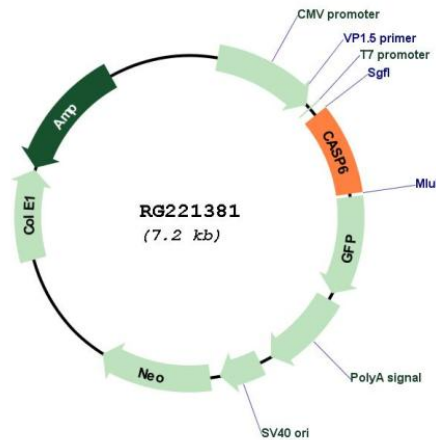


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Cloning Scheme:



Plasmid Map:



ACCN: NM_032992

ORF Size: 612 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_032992.3](#)

RefSeq Size: 1394 bp

RefSeq ORF: 615 bp

Locus ID: 839

UniProt ID: [P55212](#)

Cytogenetics: 4q25

Protein Families: Druggable Genome, Protease, Stem cell - Pluripotency

Protein Pathways: Apoptosis

Gene Summary: This gene encodes a member of the cysteine-aspartic acid protease (caspase) family of enzymes. 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 acid residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein is processed by caspases 7, 8 and 10, and is thought to function as a downstream enzyme in the caspase activation cascade. Alternative splicing of this gene results in multiple transcript variants that encode different isoforms. [provided by RefSeq, Oct 2015]