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Product datasheet for RG201349

Caspase-6 (CASP6) (NM_001226) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase-6 (CASP6) (NM_001226) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Caspase-6
Synonyms:	MCH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG201349 representing NM_001226
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCTCGGCCTCGGGGCTCCGCAGGGGGCACCCGGCAGGTGGGGAAGAAAACATGACAGAAACAGATG
CCTTCTATAAAAGAGAAATGTTTGATCCGGCAGAAAAGTACAAAATGGACCACAGGAGGAGAGGAATTGC
TTTAATCTTCAATCATGAGAGGTTCTTTTGGCACTTAACACTGCCAGAAAGGCGGGGCACCTGCGCAGAT
AGAGACAATCTTACCCGCAGGTTTTCAGATCTAGGATTTGAAGTGAAATGCTTTAATGATCTTAAAGCAG
AAGAACTACTGCTCAAAATTCATGAGGTGTCAACTGTTAGCCACGCAGATGCCGATTGCTTTGTGTGTGT
CTTCCTGAGCCATGGCGAAGGCAATCACATTTATGCATATGATGCTAAAATCGAAATTCAGACATTAACT
GGCTTGTTCAAAGGAGACAAGTGTCACAGCCTGGTTGGAAAACCCAAGATATTTATCATTCAGGCATGTC
GGGGAAACCAGCACGATGTGCCAGTCATTCCTTTGGATGTAGTAGATAATCAGACAGAGAAGTTGGACAC
CAACATAACTGAGGTGGATGCAGCCTCCGTTTACACGCTGCCTGCTGGAGCTGACTTCCTCATGTGTTAC
TCTGTTGCAGAAGGATATTATTCTCACCGGGAAACTGTGAACGGCTCATGGTACATTCAAGATTTGTGTG
AGATGTTGGGAAAATATGGCTCCTCCTTAGAGTTCACAGAACTCCTCACACTGGTGAACAGGAAAGTTTC
TCAGCGCCGAGTGGACTTTTGCAAAGACCCAAGTGCAATTGGAAAGAAGCAGGTTCCCTGTTTTGCCTCA
ATGCTAACTAAAAAGCTGCATTTCTTTCCAAAATCTAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

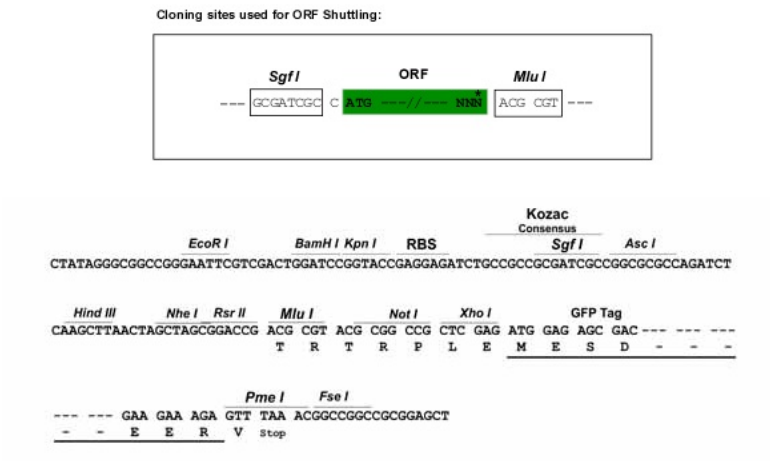
>RG201349 representing NM_001226
Red=Cloning site Green=Tags(s)

MSSASGLRRGHPAGGEENMTETDAFYKREMFDPAEKYKMDHRRRGIALIFNHERFFWHLTLPERRGTCAD
RDNLTRRFSDLGFEVKCFNDLKAEELLLKIHEVSTVSHADADCFVCVFLSHGEGNHIYAYDAKIEIQTLT
GLFKGDKCHSLVGKPKIFIIQACRGNQHDVPVIPLDVVDNQTEKLDTNITEVDAASVYTLPAGADFLMCY
SVAEGYYSHRETVNGSWYIQDLCEMLGKYGSSLEFTELLTLVNRKVSQRRVDFCKDPSAIGKKQVPCFAS
MLTKKLHFFPKSN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001226

ORF Size: 879 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_001226.4

RefSeq Size: 1661 bp

RefSeq ORF: 882 bp

Locus ID: 839

UniProt ID: P55212

Cytogenetics: 4q25

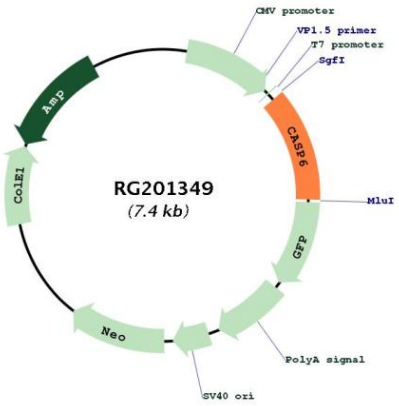
Domains: CASc, ICE_p10, ICE_p20

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]

Product images:



Circular map for RG201349