

## Product datasheet for RC221381

### 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:** Myc-DDK  
**Symbol:** Caspase-6  
**Synonyms:** MCH2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC221381 representing NM\_032992  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAGCTCGGCCTCGGGCTCCGCGAGGGGGCACCCGGCAGTGTCAACTGTTAGCCACGCAGATGCCGATT  
 GCTTTGTGTGTCTTCTGAGCCATGGCGAAGGCAATCACATTTATGCATATGATGCTAAAATCGAAAT  
 TCAGACATTAAGTGGCTTGTCAAAGGAGACAAGTGTACAGCCTGGTTGGAAAACCAAGATATTTATC  
 ATTCAGGCATGTCGGGAAACCAGCACGATGTGCCAGTCATTCTTTGGATGTAGTAGATAATCAGACAG  
 AGAAGTTGGACCAACATAACTGAGGTGGATGCAGCCTCCGTTTACACGCTGCCTGCTGGAGCTGACTT  
 CCTCATGTGTTACTCTGTTGCAGAAGGATATTATTCTACCGGAAACTGTGAACGGCTCATGGTACATT  
 CAAGATTTGTGTGAGATGTTGGGAAAATATGGCTCCTCCTTAGAGTTCACAGAATCCTCACACTGGTGA  
 ACAGGAAAGTTTCTCAGCGCCGAGTGGACTTTTGCAAAGACCCAAGTGAATTGGAAAGAAGCAGGTTCC  
 CTGTTTTGCCTCAATGCTAACTAAAAAGCTGCATTTCTTTCCAAAATCTAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC221381 representing NM\_032992  
 Red=Cloning site Green=Tags(s)

MSSASGLRRGHPAVSTVSHADADCFVCFVLSHGEGNHIYAYDAKIEIQTLTGLFKGDKCHSLVGPKIFI  
 IQACRGNQHDVPIPLDVVDNQTEKLDNITEVDAASVYTL PAGADFLMCYSVAEGYSHRETVNGSWYI  
 QDLCEMLGKYGSSLEFTELLTLVNRKVSQRRVDFCKDPSAIGKKQVPCFASMLTKKLHFFPKSN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV



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Chromatograms: [https://cdn.origene.com/chromatograms/ja1464\\_b10.zip](https://cdn.origene.com/chromatograms/ja1464_b10.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

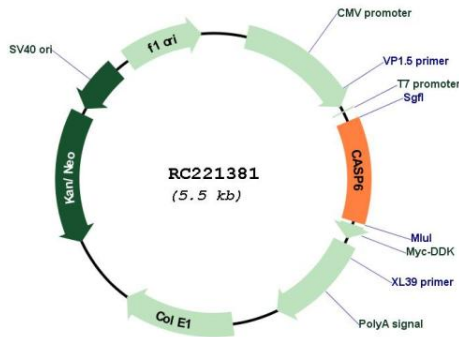
RefSeq Size: 1394 bp

RefSeq ORF: 615 bp

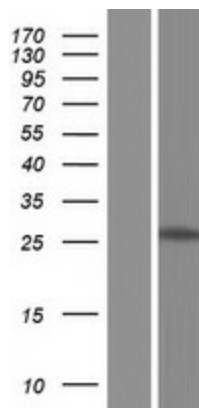
Locus ID: 839

UniProt ID: [P55212](#)  
 Cytogenetics: 4q25  
 Protein Families: Druggable Genome, Protease, Stem cell - Pluripotency  
 Protein Pathways: Apoptosis  
 MW: 22.4 kDa  
 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 RC221381



Western blot validation of overexpression lysate (Cat# [LY409793]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221381 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).