

## Product datasheet for **RC226582**

### Caspase 5 (CASP5) (NM\_001136112) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 5 (CASP5) (NM_001136112) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caspase 5
Synonyms:	ICE(rel)III; ICEREL-III; ICH-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226582 representing NM\_001136112  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGCTGTGCCAGAGTTGAAGGAGTCTTTATATTTCTGATAGAAGACAGTGGCAAAAAAAAAAGGC  
 GTAAGAATTTTGAAGCTATGTTCAAAGGTATCCTTCAGAGTGGATTGGATAACTTCGTGATAAACCCACAT  
 GCTAAAGAACAACGTGGCTGGACAAACATCTATCCAGACCCTAGTACCTAATACGGATCAAAAGTCGACC  
 AGTGTAAGAAAAAGACAACCACAAAAAAAAAACAGTTAAGATGTTGGAATACCTGGCCAAAGATGTTCTTC  
 ATGGTGTTTTTAATTATTTGGCAAAACACGATGTTCTGACATTGAAGGAAGAGGAAAAAGAAAAATATTA  
 TGATACCAAAATTGAAGACAAGGCCCTGATCTTGGTAGACTCTTTCGAAAAGAATCGCGTGGCTCATCAA  
 ATGTTTACCCAAACACTTCTCAATATGGACAAAAGATCACCAGTGTAAAACCTTCTGCAAAATCGAGG  
 CTGGACCACCTGAGTCAGCAGAATCTACAAATATACTCAAACCTTGTCTCGTGAAGAATTCCTGAGACT  
 GTGTAAGAAAAATCATGATGAGATCTATCCAATAAAAAAGAGAGAGGACCGCAGACGCTGGCTCTCATC  
 ATATGCAATACAAAGTTTGATCACCTGCCTGCAAGGAATGGGGCTCACTATGACATCGTGGGGATGAAAA  
 GGCTGCTTCAAGGCCTGGGCTACACTGTGGTTGACGAAAAGAATCTCACAGCCAGGGATATGGAGTCACT  
 GCTGAGGGCATTGCTGCCAGACCAGAGCACAAGTCTCTGACAGCACGTTCTTGGTACTCATGTCTCAT  
 GGCATCCTAGAGGGAATCTGCGGAATGCGCATAAAAAAGAAAAACCGGATGTGCTGCTTTATGACACCA  
 TCTTCCAGATATCAACAACCGCAACTGCCTCAGTCTAAAGGACAACCCAAGGTATCATTGTCCAGGC  
 CTGCAGAGGTGAAAAACATGGGGAACCTGGGTGAGAGACTCTCCAGCATCCTTGGCACTCATCTTTCA  
 CAGTCATCTGAGAACCTGGAGGCAGATTCTGTTGCAAGATCCACGAGGAGAAGGACTTCATTGCTTTCT  
 GTTCTTCAACACCACATAACGTGCTCTGGAGAGACCGCACAAGGGGCTCCATCTTACGGAATCAT  
 CACATGCTTCCAGAAATATTCTTGTCTGCCACCTAATGGAAATATTTTCGGAAGGTACAGAAATCATT  
 GAAGTTCCACAGGCTAAAGCCCAGATGCCACCATAGAACGAGCAACCTTGACAAGAGATTTCTACCTCT  
 TTCCTGGCAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226582 representing NM\_001136112  
 Red=Cloning site Green=Tags(s)

MAAVPRVEGVFIFLIEDSGKKRRRNFEAMFKGILQSGLDNFVINHMLKNNVAGQTSIQTLVPNTDQKST  
 SVKKNHKKKTKMLEYLGKDVHGVFNFLAKHDVLTLEEEKKKYYDTKIEDKALILVDSLKRNVAHQ  
 MFTQTLNMDQKITSVKPLLQIEAGPPESAESTNILKLCPREEFLRLCKKNHDEIYPIKKREDRRRLALI  
 ICNTKFDHLPARNGAHYDIVGMRLLQGLGYTVVDEKNLTARDMESVLRFAARPEHKSSDSTFLVLSH  
 GILEGICGTAHKKKPDVLLYDTIFQIFNNRNLCLKDKPKVIIVQACRGEKHGELWVRDSPASLALISS  
 QSENLEADSVCKIHEEKDFIAFCSSSTPHNVSWDRTRGSIFITELITCFQKYSACCCHLMEIFRKVQKSF  
 EVPQAKAQMPTIERATLTRDFYLFPGN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8060\\_f07.zip](https://cdn.origene.com/chromatograms/mk8060_f07.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001136112

**ORF Size:** 1341 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\\_001136112.2](#)

**RefSeq ORF:** 1344 bp

**Locus ID:** 838

**UniProt ID:** [P51878](#)

**Cytogenetics:** 11q22.3

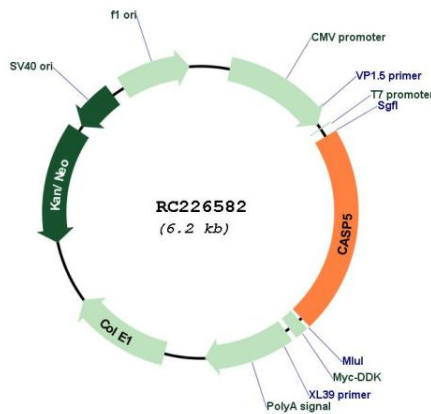
**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** NOD-like receptor signaling pathway

**MW:** 51 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. Overexpression of the active form of this enzyme induces apoptosis in fibroblasts. Max, a central component of the Myc/Max/Mad transcription regulation network important for cell growth, differentiation, and apoptosis, is cleaved by this protein; this process requires Fas-mediated dephosphorylation of Max. The expression of this gene is regulated by interferon-gamma and lipopolysaccharide. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Aug 2010]

**Product images:**



Circular map for RC226582