

## Product datasheet for **RC227816**

### Caspase 5 (CASP5) (NM\_001136110) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 5 (CASP5) (NM_001136110) 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)
ORF Nucleotide Sequence:	>RC227816 representing NM_001136110 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTGCTCTTCTGCAATCGAGGCTGGACCCTGAGTCAGCAGAATCTACAAATATACTCAAACCTTT  
GTCCTCGTGAAGAATTCCTGAGACTGTGTAAAAAATCATGATGAGATCTATCCAATAAAAAAGAGAGA  
GGACCGCAGACGCCTGGCTCTCATCATATGCAATACAAAGTTTGATCACCTGCCTGCAAGGAATGGGGCT  
CACTATGACATCGTGGGGATGAAAAGGCTGCTTCAAGGCCTGGGCTACACTGTGGTTGACGAAAAGAATC  
TCACAGCCAGGGATATGGAGTCAGTGCTGAGGGCATTGCTGCCAGACCAGAGCACAAGTCTCTGACAG  
CAGTTTCTTGGTACTCATGTCTCATGGCATCCTAGAGGGAATCTGCGGAACTGCGCATAAAAAAGAAAAA  
CCGGATGTGCTGCTTTATGACACCATCTCCAGATATTCAACAACCGCAACTGCCTCAGTCTAAAGGACA  
AACCCAAGGTCATCATTGTCCAGGCCTGCAGAGGTGAAAAACATGGGGAATCTGGGTGAGAGACTCTCC  
AGCATCCTTGGCACTCATCTCTTACAGTCATCTGAGAACCTGGAGGCAGATTCTGTTTGAAGATCCAC  
GAGGAGAAGGACTTCATTGCTTTCTGTTCTTCAACACCACATAACGTGTCCTGGAGAGACCGCACAAGGG  
GCTCCATCTTCATTACGGAATCATCACATGCTCCAGAAATATTCTTGTGCTGCCACCTAATGGAAAT  
ATTTCCGGAAGGTACAGAAATCATTTGAAGTCCACAGGCTAAAGCCAGATGCCACCATAGAACGAGCA  
ACCTTGACAAGAGATTTCTACCTTTTCTGGCAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_001136110.2](#)

**RefSeq ORF:** 879 bp

**Locus ID:** 838

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

**Cytogenetics:** 11q22.3

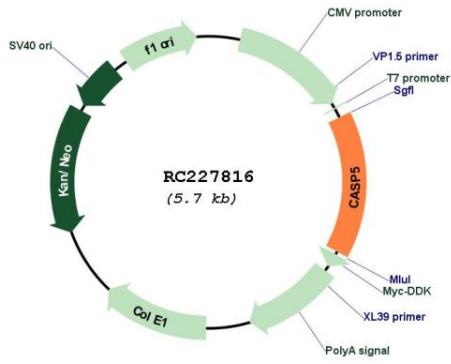
**Protein Families:** Druggable Genome, Protease

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

**MW:** 33.1 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 RC227816