

Product datasheet for **RC229221**

Caspase 5 (CASP5) (NM_004347) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 5 (CASP5) (NM_004347) 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:

>RC229221 representing NM_004347
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTGAAGACAGTGGCAAAAAAAAAAGGCGTAAGAATTTGAAGCTATGTTCAAAGGTATCCTTCAGA
 GTGGATTGGATAACTTCGTGATAAACCACATGCTAAAGAACAACGTGGCTGGACAAACATCTATCCAGAC
 CCTAGTACCTAATACGGATCAAAAAGTCGACCAGTGTAAGAAAAAGACAACCACAAAAAACAAGTTAAG
 ATGTTGGAATACCTGGGCAAAGATGTTCTTCATGGTGTTTTAAATATTTGGCAAAACACGATGTTCTGA
 CATTGAAGGAAGAGGAAAAAGAAAAATATTATGATACCAAAATTTGAAGACAAGGCCCTGATCTTGGTAGA
 CTCTTTGCGAAAGAATCGCGTGGCTCATCAAATGTTTACCCAAACACTTCTCAATATGGACCAAAAGATC
 ACCAGTGTAAAACCTCTCTGCAAATCGAGGCTGGACCACCTGAGTCAGCAGAATCTACAAATACTCA
 AACTTTGTCTCGTGAAGAATTCCTGAGACTGTGTAAAAAATCATGATGAGATCTATCCAATAAAAAA
 GAGAGAGGACCGCAGACGCTGGCTCTCATCATATGCAATACAAAGTTTGATCACCTGCCTGCAAGGAAT
 GGGGCTCACTATGACATCGTGGGGATGAAAAGGCTGCTTCAAGGCCTGGGCTACACTGTGGTTGACGAAA
 AGAATCTCACAGCCAGGGATATGGAGTCAAGTGGTGGGCAATTTGCTGCCAGACCAGAGCACAAGTCCCTC
 TGACAGCACGTTCTTGGTACTCATGTCTCATGGCATCCTAGAGGGAACTCTGCGGAACTGCGCATAAAAAAG
 AAAAAACCGGATGTGCTGCTTTATGACACCATCTCCAGATATCAACAACCGCAACTGCCTCAGTCTAA
 AGGACAAACCAAGGTATCATTGTCCAGGCTGCAGAGGTGAAAAACATGGGGAACCTGGGTGAGAGA
 CTCTCCAGCATCCTTGGCACTCATCTTCCAGTCACTGAGAACCTGGAGGCAGATTCTGTTTGAAG
 ATCCACGAGGAGAAGGACTTCATTGCTTCTGTTCTTCAACCCACATAACGTGTCCTGGAGAGACCGCA
 CAAGGGGCTCCATCTTACGGAACCTCATCATGCTTCCAGAAATATTCTTGTGCTGCCACCTAAT
 GGAAATATTTGGAAGGTACAGAAATCATTTGAAGTTCACAGGCTAAAGCCAGATGCCACCATAGAA
 CGAGCAACCTTGACAAGAGATTTCTACCTCTTCTGGCAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229221 representing NM_004347
 Red=Cloning site Green=Tags(s)

MAEDSGKKRRKNFEAMFKGILQSGLDNFVINHMLKNNVAGQTSIQTLVPNTDQKSTSVKKNHKKKTVK
 MLEYLKGDVLRHGVFNFLAKHDVLTLEKEEKKYDTKIEDKALILVDSLKRNVAHQMFQTLLNMDQKI
 TSVKPLLQIEAGPPESAESTNILKCPREEFRLCKKNHDEIYPIKKREDRRRLALICNTKFDHLPARN
 GAHYDIVGMKRLQLGLGYTVVDEKNLTARDMESVLRFAARPEHKSSDSTFLVLMESHGILEGICGTAHKK
 KKPVDVLLYDTIFQIFNRRNCLSLKDKPKVIVQACRGEKHGELWVRDSPAALALISSQSENLEADSVCK
 IHEEKDFIAFCSSTPHNVSWRDRTRGSIFITELITCFQKYSCCCHLMEIFRKVQKSFVQPQAKAQMPDIE
 RATLTRDFYLFPGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8059_f12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_004347

ORF Size: 1302 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_004347.5](#)

RefSeq ORF: 1305 bp

Locus ID: 838

UniProt ID: [P51878](#)

Cytogenetics: 11q22.3

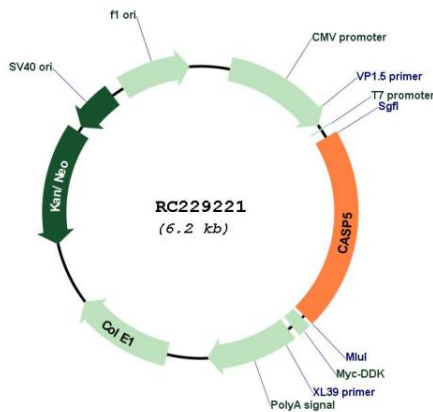
Protein Families: Druggable Genome, Protease

Protein Pathways: NOD-like receptor signaling pathway

MW: 49.6 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 RC229221