

## Product datasheet for **SC123998**

### Caspase 5 (CASP5) (NM\_004347) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 5 (CASP5) (NM_004347) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caspase 5
Synonyms:	ICE(rel)III; ICEREL-III; ICH-3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004347, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGAAGACAGTGGCAAAAAAAAAAAGCGTAAGAATTTTGAAGCTATGTTCAAAGGTATCCTTCAGA
GTGGATTGGATAACTTCGTGATAAACACATGCTAAAGAACAACGTGGCTGGACAAACATCTATCCAGAC
CCTAGTACCTAATACGGATCAAAAGTCGACCAGTGTAAAAAAGACAACCACAAAAAAGACAGTTAAG
ATGTTGGAATACCTGGGCAAAGATGTTCTTCATGGTGTTTTAAATTTTGGCAAAACACGATGTTCTGA
CATTGAAGGAAGAGGAAAAGAAAAATATTATGATACAAAATTGAAGACAAGGCCCTGATCTTGGTAGA
CTCTTTGCGAAAGAATCGCGTGGCTCATCAATGTTTACCCAAACACTTCTCAATATGGACCAAAAGATC
ACCAGTGTAAAACCTCTTCTGCAATCGAGGCTGGACCACCTGAGTCAGCAGAATCTACAAATATACTCA
AACTTTGTCTCGTGAAGAATTCCTGAGACTGTGTAAAAAATCATGATGAGATCTATCCAATAAAAAA
GAGAGAGGACCGCAGACGCTGGCTCTCATCATATGCAATACAAAAGTTTGATCACCTGCCTGCAAGGAAT
GGGGCTCACTATGACATCGTGGGGATGAAAAGGCTGCTTCAAGGCCTGGGCTACACTGTGGTTGACGAAA
AGAATCTCACAGCCAGGGATATGGAGTCAGTGTGAGGGCATTGCTGCCAGACCAGAGCACAAGTCCTC
TGACAGCACGTTCTTGGTACTCATGTCTCATGGCATCCTAGAGGGAACTGCGGAACTGCGCATAAAAAA
AAAAACCGGATGTGCTGCTTTATGACACCATCTCCAGATATTAACAACCGCAACTGCCTCAGTCTAA
AGGACAAACCAAGGTCATCATTGTCCAGGCCTGCAGAGGTGAAAACATGGGAACTCTGGGTCAGAGA
CTCTCCAGCATCCTTGGCACTCATCTTACAGTCATCTGAGAACCTGGAGGCAGATTGTTTGCAAG
ATCCACGAGGAGAAGGACTTCATTGCTTTCTGTTCTTCAACACCACATAACGTGTCTTGGAGAGACCGCA
CAAGGGGCTCCATCTTACGGAACATCACATGCTTCCAGAAATATTCTTGTGCTGCCACCTAAT
GGAAATATTTGGAAGGTACAGAAATCATTGGAAGTCCACAGGCTAAAGCCAGATGCCACCATAGAA
CGAGCAACCTTGACAAGAGATTTCTACCTTTTCTGGCAATTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_004347 unedited ACGACTACTATAGGGCGGCCGGAATTCGGCACCAGTTAGCTATGGCTGAGCTTTGTCTA AAGCAAGGGCAAAACTCTTTAAGCTGTGCCAGAGTTGAAGGAGTCTTTATATTTCTGAT AGAAGACAGTGGCAAAAAAAAAAGGCGTAAGAATTTTGAAGCTATGTTCAAAGGTATCCT TCAGAGTGGATTGGATAACTTCGTGATAAACCACATGCTAAAGAACAACGTGGCTGGACA AACATCTATCCAGACCCTAGTACCTAATACGGATCAAAAGTCGACCAGTGTAATAAAGA CAACCACAAAAAAAAAACAGTTAAGATGTTGGAATACCTGGCAAGATGTTCTTCATGG TGTTTTTAATTATTTGGCAAAACACGATGTTCTGACATTGAAGGAAGAGGAAAAGAAAA ATATTATGATACCAAATTGAAGACAAGGCCCTGATCTTGGTAGACTCTTTGCGAAAAGAA TCGCGTGGCTCATCAAATGTTTACCCAAACACTTCTCAATATGGACCAAAGATCACCAG TGTA AACCTCTCTGCAATCGAGGCTGGACCACCTGAGTCAGCAGAATCTACAAATAT ACTCAACTTTGCTCCTCGTGAAGAATTCCTGAGACTGTGNTAAAAAATCATGATGAGAT CTATCNCATAAAAAGAGAGAGGACCGCAGACGCCTGGCTCTCATCATATGCAATACAAA GTTGATCNACTGCCTGCAGGGATGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004347
<b>Insert Size:</b>	4200 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_004347.1</a> , <a href="#">NP_004338.1</a>
<b>RefSeq Size:</b>	1449 bp
<b>RefSeq ORF:</b>	1257 bp
<b>Locus ID:</b>	838
<b>UniProt ID:</b>	<a href="#">P51878</a>
<b>Cytogenetics:</b>	11q22.3
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Protein Pathways:</b>	NOD-like receptor signaling pathway

**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]

Transcript Variant: This variant (a) encodes isoform a.