

Product datasheet for **SC119362**

Caspase 9 (CASP9) (NM_001229) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 9 (CASP9) (NM_001229) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caspase 9
Synonyms:	APAF-3; APAF3; ICE-LAP6; MCH6; PPP1R56
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001229 edited
GAATTCGGCACGAGGCCGAGGCCGGAAGCGGACTGAGGCGGCCTGGAGTCTTAGTTGGC
TACTCGCCATGGACGAAGCGGATCGGGCGCTCCTGCGGCGGTGCCGGCTGCGGCTGGTGG
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TGTGCAATAGTGACACGCTGGGCTTCCCCACAXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCGAC
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001229 unedited CAGATTTTGTATACACTCACTATAGGCGGCCGCGATTTCGGCACGAGGCCGAGGCCCGGAA GCGGACTGAGGCGGCCTGGAGTCTTATTTGGCTACTCGCCATGGACGAAGCGGATCGGCG GCTCCTGCGGGCGTGCCGGCTGCGGCTGGTGAATATCTGCAGGTGGACCAGCTCTGGGA CGTCTGCTGAGCCGCGAGCTGTTCATGCCCATATGATCGAGGACATCCAGCGGGCAGG CTCTGGATCTCGGCGGGATCAGGCCAGGCAGCTGATCATAGATCTGGAGACTCGAGGGAG TCAGGCTCTTCCCTTTGTTTCATCTCCTGCTTATAGGACACAGGCCAGGACATGCTGGCTTC GTTTCTGCGAACTAACAGGCAAGCAGCAAAGTTGTCGAAGCCAACCCTATAAACCTTAC CCCAGTGGTGCTCAGACCAGAGATTTCGCAAACAGAGTTCTCAGACCGGAAACACCCAT ACCAGTGGACATTGGTTCTGGAGGATTTCGGTGATGTCGGTCTCTTGAGAGTTTGAGGGG AAATGCAGATTTGGCTTACATCCTGAGCATGGAGCCCTGTGGCCACTGCCTCATTATCAT ACATGTGAACTTCTGCCGTGAGTCCGGGCTCCGCACCCGCACTGGCTCCAACATCGACTG TGAGAAGTTGCGGCGTCGCTCCTCCTCGCTGCATTTTCATGGTGGAGGTGAATGGCGACCT GACTGCCAAGATATGGTCTGGCTTTGCTGGAGCTGGGCGCGCANGACCAGGTGCTCTG GACTGCTCGGTGGTGGTATTCTCTCTCACGCTGTCAGGCCNCCACCTGCAGTTCAGGG GCTGTCTACGCACATNATGGATGCCTGTGTCGGCCGAAAAATGTGAACATTTTTCATGGGA CAGCTGCCCCACCTGGGAGGAACCAACCTTTTTATCAAGCCGGGGGGGACACAAAAC CTGTTGGGGGGCCCCCTTCTGAAAG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001229 unedited TTATAATGANAAACCACCTAACATCCAGGGCCCTAATAACCAGGAAATAGTCATGCGCAA TGGCTCAAGCCTGTAACCCTGCACTTTGGGAGGCTAAGGCAGGCTGATCGCCTGAGTCC AGGAGTTCAAGACCAGCCTGAGTAACATGGCATAACTCTGTCTACTAAAAATACAAAA ATTAACCTGGTATATGTGGTGACACCTGTAGTCCAAGCTACTCAGGTGGCTGAGGTGGAA GGATCTCTTGAGCCCAGGAGGTGAGACTGCAATAAGCCAAGATTGCGTCATTGCACTCC AGCCTGGGCGACAGAGTGAGACCCCATCTCAAAAAAAAAAGGCCCAAAAAACAAGATATA GGCTGGCATAAAGGACAGCTTAAAGACCTCAGGGTGGAGCCTTGTTGGGAAAGCCAGCGT GTCACTATTGCACAGCACGTTTACACTGCAGTCCGGGGGTGCTTCAGCAAGTAAGGCACA TGGGAAGCATGGCTAGGACTCAAGGGACCAAGTTTCTGCCAGGTCTCCTCTCTGATAA TCGTTTTCCCTTGACAAAGAACTAAACCTCCTGAACACAGGGTCTAACCCCTGGTGCC TTCTGGGATGGATAAAGATCAAGTTGAATTAAGACTTGAATTAATGGGGGCTGGGTGC AATGTTGCCCCCGGTTGTAAGAACTACCTGGGAAGGGCACTTGAGCCCAAGGATTT TGAACCAGCCCGGGCAACCTTTCGGGGACCCCAAGAAAAACCGGGGGAAAAAGTTTCC AAAATAAGCAAAATCTCCTTTTGGTAAGGAAAAAAGAGTTTTGGGCCAAAGTGG GGGAAAAAAGGCCAAAAAGAAAGTCCATTTTGCACAAAATTTTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001229
Insert Size:	3000 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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_001229.2 , NP_001220.2
RefSeq Size:	2034 bp
RefSeq ORF:	1251 bp
Locus ID:	842
UniProt ID:	P55211
Cytogenetics:	1p36.21
Domains:	Peptidase_C14, CARD, CASc
Protein Families:	Druggable Genome, Protease, Stem cell - Pluripotency
Protein Pathways:	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Endometrial cancer, Huntington's disease, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Parkinson's disease, Pathways in cancer, Prostate cancer, Small cell lung cancer, VEGF signaling pathway, Viral myocarditis
Gene Summary:	<p>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. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]</p> <p>Transcript Variant: This variant (alpha) encodes the longest isoform (alpha). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>