

Product datasheet for **SC119361**

Caspase-6 (CASP6) (NM_001226) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase-6 (CASP6) (NM_001226) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caspase-6
Synonyms:	MCH2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119361 sequence for NM_001226 edited (data generated by NextGen Sequencing)

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ATGAGCTCGGCCTCGGGGCTCCGCAGGGGGCACCCGGCAGGTGGGGAAGAAAACATGACA  
GAAACAGATGCCTTCTATAAAGAGAAATGTTTGATCCGGCAGAAAAGTACAAAAATGGAC  
CACAGGAGGAGAGGAATTGCTTTAATCTTCAATCATGAGAGGTTCTTTTGGCACTTAACA  
CTGCCAGAAAGGCGGGCACCTGCGCAGATAGAGACAATCTTACCCGAGGTTTTAGAT  
CTAGGATTTGAAGTGAAATGCTTTAATGATCTTAAAGCAGAAGAACTACTGCTCAAAATT  
CATGAGGTGTCAACTGTTAGCCACGCAGATGCCGATTGCTTTGTGTGTCTTCCGAGC  
CATGGCGAAGGCAATCACATTTATGCATATGATGCTAAAATCGAAATTCAGACATTAAC  
GGCTTGTTCAAAGGAGACAAGTGTACAGCCTGGTTGGAAAACCAAGATATTTATCATT  
CAGGCATGTCTGGGAAACCAGCAGCATGTGCCAGTCATTCTTTGGATGTAGTAGATAAT  
CAGACAGAGAAGTTGGACACCAACATAACTGAGGTGGATGCAGCCTCCGTTTACACGCTG  
CCTGCTGGAGCTGACTTCTCATGTGTTACTCTGTTGCAGAAGGATATTATTCTACCCGG  
GAAACTGTGAACGGCTCATGGTACATTCAGATTTGTGTGAGATGTTGGGAAAATATGGC  
TCCTCCTTAGAGTTCACAGAACTCCTCACACTGGTGAACAGGAAAGTTTCTCAGCGCCGA  
GTGGACTTTTGCAAAGACCCAAGTGCAATTGAAAAGAAGCAGGTTCCCTGTTTTGCCTCA  
ATGCTAACTAAAAGCTGCATTTCTTTCCAAAATCTAATTAA
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Clone variation with respect to NM_001226.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001226 unedited</p> <pre>TGTAATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGGGAGGGCAAGGTGTCT GGCTGCGCGTTTTGGCTGCAATGAGCTCGGCCTCGGGGCTCCGACAGGGGCACCCGGCAGG TGGGGAAGAAAACATGACAGAAACAGATGCCTTCTATAAAAGAGAAAATGTTTGATCCGGC AGAAAAGTACAAAATGGACCACAGGAGGAGGAATTGCTTTAATCTTCAATCATGAGAG GTTCTTTTGGCACTTAACACTGCCAGAAAGGCGGGCACCTGCGCAGATAGAGACAATCT TACCCGACAGTTTTTCAGATCTAGGATTTGAAGTAAAATGCTTTAATGATCTTAAAGCAGA AGAACTACTGCTCAAAATTCATGAGGTGTCAACTGTTAGCCACGCAGATGCCGATTGCTT TGTGTGTGCTTCTGAGCCATGGCGAAGGAATCACATTTATGCATATGATGCTAAAAT CGAAATTCAGACATTAAGTGGCTTGTTCAAAGGAGACAAGTGTACAGCCTGGTTGGAAA ACCCAAGATATTTATCATTACAGGCATGTCGGGAAACCAGCACGATGTGCCAGTCATTCC TTTGGATGATGATAGATAATCAGACAGAGAAGTTGGACCAACATAAAGTGGTGGATGC AGCCTCCGTTTACACGCTGCCTGCTGGAGCTGACTTCTCATGTNGTACTCTGTTGCAGA AGGATATTATTCTACCCGGAAACTGTGAACGGCTCATGGTACATTCAAGAATTGTGTGA GATGTTGGGAAAATATGNNCTCTCCTTTAAAGTACAGAACTCCTCACACTGGTGAACA NGNANAGTTCTCAGCGCCCGAGTGGACTTNNGCAAGACCCNAGTGCANNTGGAAGNAAG NCAGNTCCCTGGTTTTGCCTCA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001226 unedited</p> <pre>CGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTGAATTTTGAATATTTTATTAA GGGATGATTTAATCCTGGATTTCAAAAACCTTTAAAAACATCAAACAATAAACTTTTAT AAAAAAGTGACAAAATACAAGTTAAATCAGCTAGATTTTTGTGTAAACCCTGCAGTTTATT AAAAAATAATACAATGCTTATAAATTTTTATTTATCTAATTTCTGAGGATTTTGTTC TCCATATCAAACCTTTACCATGGCCAACATGAACTTTTTTTTTTTTTTTTTAAAGCAG TTCTCTGCTAGGCATTAACCTTTAAAACATTTGAATCATTGGACCATAATGCTTACCCT AACGATATTTATATAAAGGAAGAGAAAGACATTTTCTTTTTTTGAGACGGAGTTTAC TCGTTGCCAGGCTGGAGTGCAATGGCGCAATCTCGGCTCACCGCAGCCTCCACCTCCTG GGTTCAAGTGATTCTCCTGCCTCAGCCCTCCAAGTAGCTGGGATTGCAGGCATGCGCCGC CATGCCTAGCTAAATTTTTTTTGCATTTTAGTAGAGACGGGGCTTCTCCATGTTGGTC AGGCTGGTCTCGAACTCCCGACCTCAGGTGATCCGCCACCTTGGACTCCCAAAGTGCTG GGATTACAGGTGTGAGTAACACGCCTGGCTGAGAAAGCCATTTTAAATACAGAGTGTA AATTAGATAGCCCTATTAATTAATTAGATTTCTGGAAAGAAATGCAGCTCTTTAGTTAG CATTGAGGCAAACAGGGAACCTGCTTCTTCCATTGCACTTGGGTCTTTGCAAAGTCCCT TGGGGCTGAAAACCTTCTGTCCATGTGAGGGTTTGTGACTCTAAGGAGAGCATATTTT CCACATTTACAAAATTTGATGTCCATGACCGTACAAGTTCGGGAGATAATTTTCTGCAC AATAA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001226
Insert Size:	1600 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_001226.3 , NP_001217.2
RefSeq Size:	1661 bp
RefSeq ORF:	882 bp
Locus ID:	839
UniProt ID:	P55212
Cytogenetics:	4q25
Domains:	CASc, ICE_p10, ICE_p20
Protein Families:	Druggable Genome, Protease, Stem cell - Pluripotency
Protein Pathways:	Apoptosis
Gene Summary:	<p>This gene encodes a member of the cysteine-aspartic acid protease (caspase) family of enzymes. 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 acid residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein is processed by caspases 7, 8 and 10, and is thought to function as a downstream enzyme in the caspase activation cascade. Alternative splicing of this gene results in multiple transcript variants that encode different isoforms. [provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (alpha) represents the longer transcript and encodes the longer 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>