

Product datasheet for SC111600

Caspase 4 (CASP4) (NM_001225) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 4 (CASP4) (NM_001225) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caspase 4
Synonyms:	ICE(rel)II; ICEREL-II; ICH-2; Mih1; Mih1/TX; TX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111600 sequence for NM_001225 edited (data generated by NextGen Sequencing)

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ATGGCAGAAGGCAACCACAGAAAAAGCCACTTAAGGTGTTGGAATCCCTGGGCAAGAT
TTCTCACTGGTGTGTTTGGATAACTTGGTGAACAAAATGTAAGTGAAGGAAAGAG
GAAAAAAGAAATATTACGATGCTAAAAGTGAAGACAAAGTTCGGGTCATGGCAGACTCT
ATGCAAGAGAAGCAACGTATGGCAGGACAAATGCTTCTCAAACCTTTTTAACATAGAC
CAAATATCCCCAATAAAAAAGCTCATCCGAATATGGAGGCTGGACCACCTGAGTCAGGA
GAATCTACAGATGCCCTCAAGCTTTGCTCCTCATGAAGAATTCCTGAGACTATGTAAGAA
AGAGCTGAAGAGATCTCCAATAAAGGAGAGAAACAACCGCACACGCTGGCTCTCATC
ATATGCAATACAGAGTTTGACCATCTGCCTCCGAGGAATGGAGCTGACTTTGACATCACA
GGGATGAAGGAGCTACTTGGGGTCTGGACTATAGTGTAGATGTAGAAGAGAATCTGACA
GCCAGGGATATGGAGTCAGCGCTGAGGGCATTGCTACCAGACCAGAGCAAGTCTCT
GACAGCACATTCTTGGTACTCATGTCTCATGGCATCCTGGAGGGAATCTGCGAACTGTG
CATGATGAGAAAAACCAGATGTGCTGCTTTATGACACCATCTTCCAGATATTCAACAAC
CGCAACTGCCTCAGTCTGAAGGACAAACCAAGGTTCATCATTGTCCAGGCCTGCAGAGGT
GCAAAACCGTGGGAACTGTGGGTGAGAGACTCTCCAGCATCCTTGGAAAGTGGCCTCTTCA
CAGTCATCTGAGAACCTAGAGGAAGATGCTGTTTACAAGACCCACGTGGAGAAGGACTTC
ATTGCTTTCTGCTCTTCAACGCCACACAACGTGCTCCTGGAGAGACAGACAATGGGCTCT
ATCTTCATCACAACTCATCATGCTTCCAGAAATATTCTTGGTGTGCCACCTAGAG
GAAGTATTTTCGGAAGGTACAGCAATCATTGAAACTCCAAGGGCCAAAGCTCAAATGCC
ACCATAGAACGACTGTCCATGACAAGATATTTCTACCTCTTCTGGCAATTGA

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Clone variation with respect to NM_001225.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001225 unedited NGGGTGCACATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGAACGCTG TAAAAAGACAGAGGCTGTTCCCTATGGCAGAAGGCAACCACAGNAAAAAGCCACTTAA GGTGTTGGAATCCCTGGGCAAAGATTTCCCTCACTGGTGTGTTGGATAACTGGTGGAAACA AAATGTAAGTGAAGTGAAGGAAGAGGAAAAAGAAATATTACGATGCTAAAACTGAAGA CAAAGTTCGGGTATGGCAGACTCTATGCAAGAGAAGCAACGTATGGCAGGACAAATGCT TCTTCAAACCTTTTTTAACATAGACCAAATATCCCCCAATAAAAAAGCTATCCGAATAT GGAGGCTGGACCACCTGAGTCAGGAGAATCTACAGATGCCCTCAAGCTTTGTCCTCATGA AGAATTCCTGAGACTATGTAAGAAAGAGCTGAAGAGATCTATCCAATAAAGGAGAGAAA CAACCGCACACGCTGGCTCTCATCATATGCAATACAGAGTTTGACCATCTGCCTCCGAG GAATGGAGCTGACTTTGACATCACAGGGATGAAGGAGCTACTTGAGGGTCTGGACTATAG TGTAGATGTAGAAGAGAATCTGACAGCCAGGGATATGGAGTCAGCGCTGAGGGCATTGTC TACCAGACCAGAGCACAAGTCTCTGACAGCACATTCTGGTACTCATGTCTCATGGCAT CCTGGAGGAATCTGCGAACTGTGCATGATGAGAAAAACCAGATGTGTGCTTTATGA CACCATCTCCAGATATTCAACAACCGCACTGCCTCAGTCTGAAGGACAAACCAAGTC ATCATTGTCCAGGCTGCAGAAGTGCANACCGTGGGGAACNNTGTGGTCAGAGACTCTTC AGCATCCTTGA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001225 unedited NCCTCTGTGNACCGCGCCGATTCTANGATCGGTTTTTTTTTTTTTTTTTTGCTTCACT TTTATTGAAATACAAAATGTTAAATATGCAAGCTGTACTAATGAAGGTGCTCCTGAAGT TGATTAAGGAGGGCTGGGCTGCTTGTGGCTTCCATTTTCAATTGCCAGGAAAGAGGTAGA AATATCTTGTGCATGGACAGTCGTTCTATGGTGGGCATTTGAGCTTTGGCCCTTGAGT CAAATGATTGCTGTACCTTCCGAAATACTCCTCTAGGTGGCAGACCAAGAATATTTCT GGAAGCATGTGATGAGTTGTGTGATGAAGATAGAGCCATTGTGCTGTCTCTCCAGGACA CGTTGTGTGGCGTTGAAGAGCAGAAAGCAATGAAGTCCTTCTCCACGTGGGTCTTGTA CAGCATCTTCTCCAGGTTCTCAGATGACTGTGAAGAGGCCACTTCCAAGGATGCTGGAG AGTCTCTGACCCACAGTTCACCGGTTTGCACCTCTGCAGGCCCTGGACAATGATGACCT TGGGTTTGTCTTCAGACTGAGGCGAGTTGCGGTTGTTGAATATCTGGAAGATGGTGT AAAGCAGCACATCTGGTTTTTCTCATCATGCACAGTTCCGCAGATTCCTCCAGGATGC CATGAGACATGAGTACCAAGAATGTGCTGTCAGAAGACTTGTGCTCTGGTCTGGTAGCAN ATGCCCTCAGCGCTGACTCCATATCCCTGGCTGTCAGATTCTTCTACATCTACACTAT AGTCCAGACCCCTCAGTAGCTCCTTCATCCCTGTGATGTCAAAGTCAGCTCCATTCTCG NAGGCAGATGGTCAAACCTCTGTATTGCATATGATGAGAAGCCAGNCGTGTGCCGGTGGT TCTCTCTTTATGGATAAGACTCTTCAGCTCTTCTTTACATANNCTN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001225
Insert Size:	1290 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_001225.3 , NP_001216.1
RefSeq Size:	1319 bp
RefSeq ORF:	1134 bp
Locus ID:	837
UniProt ID:	P49662
Cytogenetics:	11q22.3
Domains:	CARD, CASc, ICE_p10, ICE_p20
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>This gene encodes a protein that is 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 composed of a prodomain and a large and small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This caspase is able to cleave and activate its own precursor protein, as well as caspase 1 precursor. When overexpressed, this gene induces cell apoptosis. Alternative splicing results in transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (alpha) encodes the longest isoform (alpha).</p>