

## Product datasheet for **SC309754**

### Caspase 8 (CASP8) (NM\_001228) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 8 (CASP8) (NM_001228) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caspase 8
Synonyms:	ALPS2B; CAP4; Casp-8; FLICE; MACH; MCH5
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001228 edited  
 CTGGTTGTTTCAGACTGAGCTTCCCTGCCTGCCTGTACCCCGCCAACAGCTTCAGAAGAAGG  
 TGACTGGTGGCTGCCTGAGGAATACCAGTGGGCAAGAGAATTAGCATTCTGGAGCATCT  
 GCTGTCTGAGCAGCCCTGGGTGCGTCCACTTTCTGGGCACGTGAGGTTGGGCCTTGCC  
 GCCTGAGCCCTTGAGTTGGTCACCTTGAACCTTGGGAATATTGAGATTATTTCTCCTGCC  
 TTTTAAAAAGATGGACTTCAGCAGAAATCTTTATGATATTGGGAACAACCTGGACAGTGA  
 AGATCTGGCCTCCCTCAAGTTCCTGAGCCTGGACTACATTCGCAAAAGGAAGCAAGAACC  
 CATCAAGGATGCCTTGATGTTATTCCAGAGACTCCAGGAAAAGAGAATGTTGGAGGAAAG  
 CAATCTGTCCTTCTGAAGGAGCTGCTCTCCGAATTAATAGACTGGATTGCTGATTAC  
 CTACCTAAACACTAGAAAGGAGGAGATGAAAAGGGAACCTCAGACACCAGGCAGGGCTCA  
 AATTTCTGCCTACAGTTCCTACTTCTGCCGCATGAGCTGGGTGAAGCAAAACAGCCAGTG  
 CCAGACACAGTCTGTACCTTTCTGGCGGAGGGTCGATCATCTATTAATAAGGGTCATGCT  
 CTATCAAATTTTCAAGAAGTGAGCAGATCAGAATTGAGGTCTTTAAGTTTCTTTTGCA  
 AGAGGAAATCTCCAAATGCAAACCTGGATGATGACATGAACCTGCTGGATATTTTCATAGA  
 GATGGAGAAGAGGGTCATCCTGGGAGAAGGAAAGTTGGACATCCTGAAAAGAGTCTGTGC  
 CCAAATCAACAAGAGCCTGCTGAAGATAATCAACGACTATGAAGAATTCAGCAAAGGGGA  
 GGAGTTGTGTGGGTAATGACAATCTCGGACTCTCCAAGAGAACAGGATAGTGAATCACA  
 GACTTTGGACAAAGTTTACCAAATGAAAAGCAAACCTCGGGGATACTGTCTGATCATCAA  
 CAATCACAAATTTGCAAAAGCACGGGAGAAAAGTGCCCAAACCTTACAGCATTAGGGACAG  
 GAATGGAACACACTTGGATGCAGGGGCTTTGACCACGACCTTTGAAGAGCTTCATTTTGA  
 GATCAAGCCCCACGATGACTGCACAGTAGAGCAAATCTATGAGATTTTAAAACTACCA  
 ACTCATGGACCACAGTAACATGGACTGCTTCATCTGCTGTATCCTCTCCCATGGAGACAA  
 GGGCATCATCTATGGCACTGATGGACAGGAGGCCCCCATCTATGAGCTGACATCTCAGTT  
 CACTGGTTTGAAGTGCCCTTCCCTTGCTGGAAAACCCAAAGTGTTTTTTATTCAGGCTTG  
 TCAGGGGGATAACTACCAGAAAGGTATACCTGTTGAGACTGATTAGAGGAGCAACCCTA  
 TTTAGAAATGGATTTATCATCACCTCAAACGAGATATATCCCGGATGAGGCTGACTTTCT  
 GCTGGGGATGGCCACTGTGAATAACTGTGTTTCTACCAGAAACCTGCAGAGGGAACCTG  
 GTACATCCAGTCACTTTGCCAGAGCCTGAGAGAGCGATGTCCTCGAGGCGATGATATTCT  
 CACCATCTGACTGAAGTGAACATGAAGTAAGCAACAAGGATGACAAGAAAAACATGGG  
 GAAACAGATGCCTCAGCCTACTTTCACACTAAGAAAAAACTTGTCTTCCCTTCTGATTG  
 ATGGTGCTATTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTG  
 CGCCAGGCTGGAGTGAGTGGCGTGATCTCGGCTCACCGCAAGCTCCGCCTCCCGGGTG  
 GCATCCCTGTGACCCCTCCCAAGTGC

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_001228 unedited  
 GGGGAGGTCAAAATGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCTGGT  
 TGTTTCAGACTGAGCTTCCCTGCCTGCCTGTACCCCGCCAACAGCTTCAGAAGAAGGTGACT  
 GGTGGCTGCCTGAGGAATACCAGTGGGCAAGAGAATTAGCATTCTGGAGCATCTGCTGT  
 CTGAGCAGCCCTGGGTGCGTCCACTTTCTGGGCACGTGAGGTTGGGCCTTGCCGCCTG  
 AGCCCTTGAGTTGGTCACCTTGAACCTTGGGAATATTGAGATTATATTCTCCTGCCTTTTA  
 AAAAGATGGACTTCAGCAGAAATCTTTATGATATTGGGAACAACCTGGACAGTGAAGATC  
 TGGCCTCCCTCAAGTTCCTGAGCCTGGACTACATTCGCAAAAGGAAGCAAGAACCATCA  
 AGGATGCCTTGATGTTATTCCAGAGACTCCAGGAAAAGAGAATGTTGGAGGAAAGCAATC  
 TGTCTTCTGAAGGAGCTGCTTCCGAATTAATAGACTGGATTGCTGATTACCTACC  
 TAAACACTAGAAAGGAGGAGATGAAAAGGGAACCTCAGACACCAGGCAGGGCTCAAATTT  
 CTGCCTACAGGTTCCACTTCTGCCGCATGAGCTGGGCTGAAGCAAAACAGCCAGTGCCAGA  
 CACAGTCTGTACCTTTCTGGCGGAGGGTCGATCATCTATTAATAAGGGTCATGCTCTATC  
 AAATTTCAAGAAGTGAGCAGATCAGAATTGANGTCTTTTAAAGTTTCTTTTGNNCAGA  
 GAAATCTCCAAATGCAAACCTGGATGATGACATGAACCTGCTGGATATTTTCATAGAGATG  
 GNANAAGAGGGTCATCCCTGGAGAAGGAAAGTTGGACATNCTGAAAANAGTCTGTGCCCC  
 AAATCAACAGAC

<b>3' Read Nucleotide Sequence:</b>	>Forward primer walk for NM_001228 unedited NAACATGGTGCAGGGCTTTGACACGACCTTTGAGAGCTTCATTTGAGATCAGCCCCACAT GACTGCACAGTAGAGCAAATCTATGAGATTTTAAAAATCTACCAACTCATGGACCACAGT AACATGGACTGCTTCATCTGCTGTATCCTCTCCCATGGAGACAAGGGCATCATCTATGGC ACTGATGGACAGGAGGCCCCATCTATGAGCTGACATCTCAGTTCACTGGTTTGAAGTGC CCTTCCCTTGCTGAAAAACCCAAAGTGTTTTTTATTCAGGCTTGTGAGGGGATAACTAC CAGAAAAGGTATACCTGTTGAGACTGATTCAGAGGAGCAACCCTATTTAGAAATGGATTTA TCATCACCTCAAACGAGATATATCCCGGATGAGGCTGACTTCTGCTGGGGATGGCCACT GTGAATAACTGTGTTTCTACCGAAACCCTGCAGAGGGAACCTGGTACATCCAGTCACTT TGCCAGAGCCTGAGAGAGCGATGTCTCGAGGCGATGATATTCTCACCATCCTGACTGAA GTGAACTATGAAGTAAGCAACAAGGATGACAAGAAAAACATGGGGAAACAGATGCCTCAG CCTACTTTACACTAAGAAAAAACTTGTCTTCCCTTCTGATTGATGGTGTATTTTGT TGTTTTGTTTTGTTTTGTTTTTGGAGACAGAATCTCGCTCTGTCGCCAGGCTGGAGTG CAGTGGCGTGATCTCGGCTCACCGCAAGCTCCGCTCCCCGGTGGCATCCCTGTGACCCC TCCCCATGCCTTCTGCCCCCTGGAGTTGCCACTCCAGTGCCCACCAGCCTTGTCTAA TAAATTAAGTTGCATCATTTTGTCTGACTAGGTGCCTTCTATATATATGGGT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001228
<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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>	<u><a href="#">NM_001228.3</a></u> , <u><a href="#">NP_001219.2</a></u>
<b>RefSeq Size:</b>	2894 bp
<b>RefSeq ORF:</b>	1491 bp
<b>Locus ID:</b>	841
<b>UniProt ID:</b>	<u><a href="#">Q14790</a></u>
<b>Cytogenetics:</b>	2q33.1
<b>Domains:</b>	DED, CASc, ICE_p10, ICE_p20
<b>Protein Families:</b>	Druggable Genome, Protease

<b>Protein Pathways:</b>	Alzheimer's disease, Apoptosis, Huntington's disease, NOD-like receptor signaling pathway, p53 signaling pathway, Pathways in cancer, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Viral myocarditis
<b>Gene Summary:</b>	<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 composed of a prodomain, a large protease subunit, and a 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 protein is involved in the programmed cell death induced by Fas and various apoptotic stimuli. The N-terminal FADD-like death effector domain of this protein suggests that it may interact with Fas-interacting protein FADD. This protein was detected in the insoluble fraction of the affected brain region from Huntington disease patients but not in those from normal controls, which implicated the role in neurodegenerative diseases. Many alternatively spliced transcript variants encoding different isoforms have been described, although not all variants have had their full-length sequences determined. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (A), also known as Alpha-4, has multiple differences in the 5' UTR and coding region, compared to variant G. It encodes isoform A which is shorter than isoform G.</p>