

Product datasheet for **SC124569**

Caspase 8 (CASP8) (NM_033356) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 8 (CASP8) (NM_033356) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caspase 8
Synonyms:	ALPS2B; CAP4; Casp-8; FLICE; MACH; MCH5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_033356, the custom clone sequence may differ by one or more nucleotides

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ATGGACTTCAGCAGAAATCTTTATGATATTGGGGAACAACCTGGACAGTGAAGATCTGGCCTCCCTCAAGT
TCCTGAGCCTGGACTACATTCGCAAAAGGAAGCAAGAACCCATCAAGGATGCCTTGATGTTATTCCAGAG
ACTCCAGGAAAAGAGAATGTTGGAGGAAAGCAATCTGTCTTCCTGAAGGAGCTGCTCTCCGAATTAAT
AGACTGGATTTGCTGATTACCTACCTAAACACTAGAAAGGAGGAGATGGAAAGGGAACCTCAGACACCAG
GCAGGGCTCAAATTTCTGCCTACAGGGTCATGCTCTATCAGATTTCAGAAGAAGTGAGCAGATCAGAATT
GAGGTCTTTAAGTTTCTTTGCAAGAGGAAATCTCCAAATGCAAACCTGGATGATGACATGAACCTGCTG
GATATTTTCATAGAGATGGAGAAGAGGGTCATCCTGGGAGAAGGAAAGTTGGACATCCTGAAAAGAGTCT
GTGCCCAAATCAACAAGAGCCTGCTGAAGATAATCAACGACTATGAAGAATTCAGCAAAGGGGAGGAGTT
GTGTGGGGTAATGACAATCTCGGACTCTCCAAGAGAACAGGATAGTGAATCACAGACTTTGGACAAAAGTT
TACCAAATGAAAAGCAAACCTCGGGGATACTGTCTGATCATCAACAATCACAATTTTGAAAAGCACGGG
AGAAAGTGCCCAAACCTTCACAGCATTAGGGACAGGAATGGAACACACTTGGATGCAGGGGCTTTGACCAC
GACCTTTGAAGAGCTTCATTTTGAGATCAAGCCCCACGATGACTGCACAGTAGAGCAAATCTATGAGATT
TTGAAAATCTACCAACTCATGGACCACAGTAACATGGACTGCTTCATCTGCTGTATCCTCTCCCATTGGAG
ACAAGGGCATCATCTATGGCACTGATGGACAGGAGGCCCCATCTATGAGCTGACATCTCAGTTCAGTGG
TTTGAAGTGCCCTTCCCTTGCTGGAAAACCCAAAGTGTTTTTTATTCAGGCTTGCAGGGGGATAACTAC
CAGAAAGGTATACCTGTTGAGACTGATTCAGAGGAGCAACCCATTTAGAAATGGATTTATCATCACCTC
AAACGAGATATATCCCGGATGAGGCTGACTTTCTGCTGGGGATGGCCACTGTGAATAACTGTGTTTCCTA
CCGAAACCTGCAGAGGGAACCTGGTACATCCAGTCACTTTGCCAGAGCCTGAGAGAGCGATGTCCTCGA
GGCGATGATATTCTACCATCCTGACTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
TGGGGAACAGATGCCTCAGCCTACTTTCACACTAAGAAAAAACTTGTCTTCCCTTCTGATTGA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_033356 unedited AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTTTACAGATTATATTC TCCTGCCTTTTAAAAAGATGGACTTCAGCAGAAATCTTTATGATATTGGGGAACAACCTGG ACAGTGAAGATCTGGCCTCCCTCAAGTTCCTGAGCCTGGACTACATTCGCAAAGGAAGC AAGAACCATCAAGGATGCCTTGATGTTATTCCAGAGACTCCAGGAAAAGAGAATGTTGG AGGAAAGCAATCTGTCTTCTGAAGGAGCTGCTCTCCGAATTAATAGACTGGATTTC TGATTACCTACCTAAACACTAGAAAGGAGGAGATGGAAAGGGAACCTCAGACACCAGGCA GGGCTCAAATTTCTGCCTACAGGGTCATGCTCTATCAGATTTTCAGAAGAAGTGAGCAGAT CAGAATTGAGGTCTTTAAGTTTCTTTGCAAGAGGAAATCTCCAAATGCAAACTGGATG ATGACATGAACCTGCTGGATATTTTCATAGAGATGGAGAAGAGGGTCATCCTGGGAGAAG GAAAGTTGGACATCCTGAAAAGAGTCTGTGCCAAATCAACAAGAGCCTGCTGAAGATAT CAACGACTATGAAGAAATCAGCANAGAGAGAAGCAGCAGCCTTGAAGGAAGTCTGATGA ATTTTCAAATGGGGAGGAGCTGTGTGGGTAATGACAAATCTCGACTCTNCAAGAGACAG GATAGTGAATCACAGACTTTGGNACAAGTTACCAATGAAAAGCAAACCTCGNGATACT GTCTGATCATCAAACATACCATTTTGAAAAGCACGGGAGAAGTGCCCAATCTCACAGC ATTAGGACAGGATGGNACCATTGGTGACAGGGCTTGACACGACCTTGAAGAGCTCATTT GAATCAGCCCACTAGACTGCCAGTNAGCAATCTTGAGATTGAAATCTACACC
Restriction Sites:	NotI-NotI
ACCN:	NM_033356
Insert Size:	2700 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_033356.2 , NP_203520.1
RefSeq Size:	2631 bp
RefSeq ORF:	1395 bp
Locus ID:	841
UniProt ID:	Q14790
Cytogenetics:	2q33.1
Domains:	Peptidase_C14, DED, CASc
Protein Families:	Druggable Genome, Protease

Protein Pathways: 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

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 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]

Transcript Variant: This variant (C) includes a different segment in the 5' UTR and lacks an alternate in-frame segment in the coding region, compared to variant G. Variants C and F both encode isoform C, which is shorter than isoform G. Isoform C has also been labelled as Alpha-2 or MCH5-beta.