

Product datasheet for **SC321316**

Caspase 2 (CASP2) (NM_032982) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 2 (CASP2) (NM_032982) Human Untagged Clone
Tag:	Tag Free
Symbol:	Caspase 2
Synonyms:	CASP-2; ICH1; NEDD-2; NEDD2; PPP1R57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_032982 edited
 GGAAAAGCGGAAATGGCGGCGCCGAGCGGGGTCTTGGTCCACCTTCCAGCACAAGGA
 GCTGATGGCCGCTGACAGGGGACGCAGGATATTGGGAGTGTGTGGCATGCATCCTCATCA
 TCAGGAACTCTAAAAAGAACCAGTGGTGTAGCCAAACAGCTGTTGTTGAGCGAATT
 ATTAGAACATCTTCTGGAGAAGGACATCATCACCTTGGAAATGAGGGAGCTCATCCAGGC
 CAAAGTGGGCAGTTTCAGCCAGAATGTGGAACCTCTCACTTGTGCCTAAGAGGGGTCC
 CCAAGCTTTTGTGCCTTCTGTGAAGCACTGAGGGAGACCAAGCAAGGCCACTGGAGGA
 TATGTTGCTCACCACCCTTTCTGGGCTTACGATGTACTCCACCGTTGAGCTGTGACTA
 CGACTTGAGTCTCCCTTTTCCGGTGTGTGAGTCCTGTCCCTTTACAAGAAGCTCCGCCT
 GTCGACAGATACTGTGGAACACTCCCTAGACAATAAAGATGGTCTCTCTGCCTTCAGGT
 GAAGCCTTGCACTCCTGAATTTTATCAAACAC : ACTTCCAGCTGGCATATAGGTTGCAGT
 CTCGGCCTCGTGGCCTAGCACTGGTGTGAGCAATGTGCACTTCACTGGAGAGAAAGAAC
 TGGAAATTCGCTCTGGAGGGGATGTGGACCACAGTACTTAGTCACCC : TCTTCAAGCTT
 TTGGGCT : ATGA : CGTCCATGTTCTATGTGACCAGACTGCACAGGAAATGCAAGAGAAAC
 TGCAGAATTTTGCACAGTTACCTGCACACCGAGTCACGGACTCCTGCATCGTGGCACTCC
 TCTCGCATGGTGTGGAGGCGCCATCTATGGTGTGGATGGGAAACTGCTCCAGCTCCAAG
 AGGTTTTTCAGCTCTTTGACAACGCCAACTGCCAAGCCTACAGAACAACCAAAAATGT
 TCTTATCCAGGCCTGCCGTGGAGATGAGACTGATCGTGGGGTTGACCAACAAGATGGAA
 AGAACCACGCAGGATCCCTGGGTGCGAGGAGAGTGTGCGGGTAAAGAAAAGTTGCCGA
 AGATGAGACTGCCACGCGCTCAGACATGATATGCGGCTATGCCTGCCTCAAAGGGACTG
 CCGCCATGCGGAACCAAAACGAGGTTCTGGTACATCGAGGCTCTTGTCAAGTGT
 CTGAGCGGGCTTGTGATATGCACGTGGCCGACATGCTGGTTAAGTGAACGCCTTATCA
 AGGATCGGGAAGTTATGCTCCTGGCACAGAATCCACCGGTGCAAGGAGATGTGAAT
 ACTGCAGCACTCTGTGCCGCCACCTCTACCTGTTCCAGGACACCCTCCACATGATGTC
 ACCTCCCATCATCCACGCCAAGTGAAGCCACTGGACCACAGGAGGTGTGATAGAGCCT
 TTGATCTTCAGGATGCACGGTTTCTGTTCTGCCCTCAGGGATGTGGAAATCTCCAGA
 CTTGTTTCTGTGCCATCATCTCTGCCTTGTGAGTGTGGGACTCCAGGCCAGCTCCTTTT
 CTGTGAAGCCCTTGCCTGTAGAGCCAGCCTTGGTTGGACCTATTGCCAGGAATGTTTCA
 GCTGCAGTTGAAGAGCCTGACAAGTGAAGTTGAAACACAGTGTGGTTATGGGGAGAGGG
 CATATAAATCCCATATTTGTGTTGAGTCCAGCTTTTGTAGATGGCACTTTAGTGATT
 GCTTTTATTACATTAGTTAAGATGTCTGAGAGACCATCTCCTATCTTTTATTTTCATTCAT
 ATCCTCCGCCCTTTTGTCTAGAGTGAAGTTTGAAGGTGTCCAAATTAATGTAGAC
 ATTATCTTTTGGCTCTGAAGAAGCAAACATGACTAGAGACGCACCTTGCTGCAGTGTCCA
 GAAGCGGCCTGTGCGTCCCTTCAGTACTGCAGCGCCACCAGTGGAAAGGCACTCTTGG
 CTCGTTTGGGCTCAAGGCACCGCAGCCTGTGAGCCAACTTGCCTTGCATTTGTACCTTA
 TTGATCTTTGCCATGGAAGTCTCAAAGATCTTTCGTTGGTTGTTTCTCTGAGCTTGT
 ACTGAAATGAGCCTCGTGGGAGCATCAGAGAAGGCCAGGAAGAATGGTGTGTTCCCTA
 GACTCTGTAACCACCTCTCTGTCTTTTCTTCTGAGAAACGTCCATCTCTCCCTTA
 CTATTTCCACTTTTCAATCAACCTGCACTTCAATCTAGATTTCTAGAAAAGCTTCC
 TAGCTTATCTCCCTGCTTCATATCTCCTTCTTTACCTTCATTTTCATCCTGTTGGCTG
 CTGCCACCAATCTGTCTAGAATCCTGCTTTACAGGATCATGTAATGCTCAAAGATGTA
 ATGTAGTCTTTTCTGCTTTCTCTTTCAGTATTAACCTCTCCTTTGATATTATGTGG
 CTTTTATTTAGTCCATACATGTTATTGTTTTCAACCTAGAAACCTTTATCCCTGCTTA
 TCTGAACTTCCCAACTCCCTGATCTTAAGACTTTTTTTTTTTTTTTTTTTTTTTTGA
 GACAGAGTCTCGCTCTGTGCCCCAGGCTGGAGGGCAGTGGCACGATCTCAGCTCACTGCA
 AGCTCCAACCTCCGGGTTACGCCATTCTCCTGCCTCAGCCTTCCAAGTAGCTGGGACTA
 CAGGTGCCCGCCACCGTCCCGGCTAATTTTTTGTATTTTGTAGAGACAGGGTTTCA
 CCATGTTAGCCGGATGGTCTTGATCTCCTGACCTCATGATCCACCCACCTCAGCCTCCC
 AAAGTGTGGGATTACAGCGGTGAGCCACTGCGCCCGGCAAGACCTTTTTTTAAAAAAA
 AAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:	NM_032982
Insert Size:	3200 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_032982.2</u> , <u>NP_116764.2</u>
RefSeq Size:	4145 bp
RefSeq ORF:	1359 bp
Locus ID:	835
UniProt ID:	<u>P42575</u>
Cytogenetics:	7q34
Domains:	CARD, CASc, ICE_p10, ICE_p20
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Caspases mediate cellular apoptosis through the proteolytic cleavage of specific protein substrates. The encoded protein may function in stress-induced cell death pathways, cell cycle maintenance, and the suppression of tumorigenesis. Increased expression of this gene may play a role in neurodegenerative disorders including Alzheimer's disease, Huntington's disease and temporal lobe epilepsy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1, also known as ICH-1L), which has been shown to function as a positive regulator of apoptosis (PMID:8087842).</p> <p>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>