OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC311729

Caspase 2 (CASP2) (NM_032983) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 2 (CASP2) (NM_032983) Human Untagged Clone
Tag:	Tag Free
Symbol:	CASP2
Synonyms:	CASP-2; ICH1; NEDD-2; NEDD2; PPP1R57
Vector:	pCMV6 series
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032983, the custom clone sequence may differ by one or more nucleotides ATGGCGGCGCCGAGCGCGGGGTCTTGGTCCACCTTCCAGCACAAGGAGCTGATGGCCGCT GACAGGGGACGCAGGATATTGGGAGTGTGTGGCATGCATCCTCATCATCAGGAAACTCTA AAAAAGAACCGAGTGGTGCTAGCCAAACAGCTGTTGTTGAGCGAATTGTTAGAACATCTT CTGGAGAAGGACATCATCACCTTGGAAATGAGGGAGCTCATCCAGGCCAAAGTGGGCAGT TTCAGCCAGAATGTGGAACTCCTCAACTTGCTGCCTAAGAGGGGTCCCCAAGCTTTTGAT GCCTTCTGTGAAGCCTTGCACTCC
Restriction Sites:	Please inquire
ACCN:	NM_032983
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).

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Reconstitution Method:
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_032983.2, NP_116765.2

RefSeq Size: 3927 bp

RefSeq ORF: 327 bp

Locus ID: 835

UniProt ID: P42575

Cytogenetics: 7q34

Protein Families: Druggable Genome, Protease

Gene Summary: 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]
Transcript Variant: This variant (3) lacks an exon and uses an alternate splice site in the coding region, which results in a frameshift and early stop codon, compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1.
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.