

Product datasheet for **RC200669**

Caspase 2 (CASP2) (NM_032982) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 2 (CASP2) (NM_032982) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caspase 2
Synonyms:	CASP-2; ICH1; NEDD-2; NEDD2; PPP1R57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC200669 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGCCGAGCGCGGGTCTTGGTCCACCTTCCAGCACAAGGAGCTGATGGCCGCTGACAGGGGAC
 GCAGGATATTGGAGTGTGTGGCATGCATCCTCATCATCAGGAACTCTAAAAAAGAACCGAGTGGTGT
 AGCCAAACAGCTGTTGTTGAGCGAATTATTAGAACATCTTCTGGAGAAGGACATCATCACCTTGGAAATG
 AGGGAGCTCATCCAGGCCAAAGTGGCAGTTTCAGCCAGAATGTGGAACCTCTCAACTTGTCTGCTAAGA
 GGGGTCCCAAGCTTTTGTGCTTCTGTGAAGCACTGAGGGAGACCAAGCAAGGCCACCTGGAGGATAT
 GTTGTCAACCACCTTTTGGGCTTTCAGCATGTACTCCCACCGTTGAGCTGTGACTACGACTTGAGTCTC
 CCTTTCCGGTGTGTGAGTCTGTCCCCTTACAAGAAGCTCCGCCTGTCGACAGATACTGTGGAACACT
 CCCTAGACAATAAAGATGGTCTCTGTCTTTCAGGTGAAGCCTTGCCTCTGAATTTTATCAAACACA
 CTTCAGCTGGCATAATAGTTGAGTCTCGGCCTCGTGGCCTAGCACTGGTGTGAGCAATGTGCACTTC
 ACTGGAGAGAAAAGTGAATTTTCGCTCTGGAGGGGATGTGGACCACAGTACTCTAGTACCCCTCTTCA
 AGCTTTTGGGCTATGACGTCCATGTTCTATGTGACCAGACTGCACAGGAAATGCAAGAGAAAAGTGCAGAA
 TTTTGCACAGTTACCTGCACACCGAGTACCGACTCCTGCATCGTGGCACTCCTCTCGCATGGTGTGGAG
 GGCGCCATCTATGGTGTGGATGGGAAACTGCTCCAGCTCCAAGAGGTTTTTTCAGCTCTTTGACAACGCCA
 ACTGCCAAAGCCTACAGAACAACCAAAAATGTTCTTATCCAGGCCTGCCGTGGAGATGAGACTGATCG
 TGGGGTTGACCAACAAGTGGAAAGAACCACGCAGGATCCCCTGGGTGCGAGGAGAGTGTGCCGGTAAA
 GAAAAGTTGCCGAAGATGAGACTGCCACGCGCTCAGACATGATATGCGGCTATGCCTGCCTCAAAGGGA
 CTGCCGCATGCCGAACCAACGAGGTTCTTGGTACATCGAGGCTCTTGTCTCAAGTGTTTTCTGAGCG
 GGCTTGTGATATGCACGTGGCCGACATGCTGGTTAAGGTGAACGCACTTATCAAGGATCGGGAAGGTTAT
 GCTCTGGCACAGAATTCACCGGTGCAAGGAGATGTCTGAATACTGCAGCACTCTGTGCCGCCACCTCT
 ACCTGTTCCAGGACACCTCCACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200669 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPSAGSWSTFQHKELMAADRGRRIILVCGMHPHHQETLKKNRVVLAKQLLSELLEHLLKDIITLEM
 RELIQAKVGSFSQNVLLNLLPKRGPQAFDAFCEALRETKQHLEDMLLTLSGLQHVLPPLSCDYDLSL
 PFPVCECPLKYLRLSTDTVEHSLDNKDGPLCLQVKPCTPEFYQTHFQLAYRLQSRPRGLALVLSNVHF
 TGEKELEFRSGGDVDHSTLVTLFKLLGYDVHVLCDQTAQEMQEKLQNFQQLPAHRVTDSCIVALLSHGVE
 GAIYGVGKLLQLQEVFQLFDNANCPQLQNKPKMFFIQACRGDETDGVDQDQGNHAGSPGCEESDAGK
 EKLPKMRPLPTRSDMICGYACLKGTAAAMRNTRKGSWYIEALAQVFSERACDMHVADMLVKVNALIKDREGY
 APGTEFHRCKEMSEYCSLTCRHLVYLPFGHPPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6128_e04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_032982

ORF Size: 1356 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_032982.4](#)

RefSeq Size: 4242 bp

RefSeq ORF: 1359 bp

Locus ID: 835

UniProt ID: [P42575](#)

Cytogenetics: 7q34

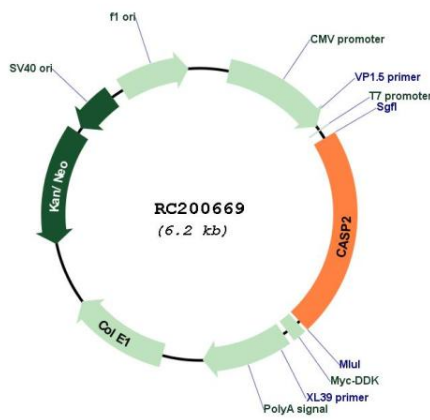
Domains: CARD, CASc, ICE_p10, ICE_p20

Protein Families: Druggable Genome, Protease

MW: 50.7 kDa

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]

Product images:



Circular map for RC200669