

Product datasheet for **MR207227**

Casp2 (NM_007610) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casp2 (NM_007610) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Casp2
Synonyms:	Casp; CASP-2; Ich-; ICH-1; Nedd; NEDD-2; Nedd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207227 representing NM_007610
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCGCCGAGCGGGAGGTCGCAGTCTCCCTGCACAGGAAGGGGCTGATGGCGGCTGACAGGAGGA
 GCAGGATTTTGGCAGTGTGTGAATGCATCCTGACCACAGAAACACTGAAAAAAGAAATCGAGTGGTGCT
 GGCCAAGCAGCTGCTGCTGAGCGAGCTGTAGAACACCTCCTAGAGAAGGACATTATCACTTTGAAATG
 AGGGAGCTCATCCAGGCCAAAGGGGGCAGTTTCAGCCAGAATGTGGAACCTCAACCTGCTGCCAAAGA
 GAGGACCCAGGCTTTTGTGCTTCTGTGAAGCCCTGCGGGAGACCAGGCAGGGTCACTTGAAGACTT
 ACTGCTCACACCCTCTCAGATATTCAGCACGTAATCCCACCGTTGAGCTGTGACTATGACACAAGTCTC
 CCTTCTCGGTGTGTGAGTCTGCCCTCCTCACAAGCAGCTCCGCCTATCCACAGATGCTACGGAACACT
 CCTTAGATAATGGTGTGATGGTCTCCTGTCTTCTGGTGAAGCCATGCACTCCTGAGTTTTACCAGGCACA
 CTACCAGCTGGCCTATAGGTTGCAATCTCAGCCCGTGGCTTGGCACTGGTGTGAGCAATGTGCACTTC
 ACTGGAGAGAAAGACCTGGAATTCGCTCTGGAGGGGATGTGGACCACACTACTCTAGTACCCTCTTCA
 AGCTTTTGGGCTACAATGTCCATGTGCTACATGACCAGACCGCACAGGAAATGCAAGAGAAACTTCAGAA
 TTTTGCACAGTTACCTGCACACCGGGTACAGACTCCTGCGTAGTGGCACTCCTCTCACATGGTGTGGAA
 GGTGGCATCTATGGTGTAGATGGCAAATGCTTCACTCAAGAGGTTTTTTCGACTTTTTGACAATGCTA
 ACTGTCCAAGTCTACAGAAACAGCCAAAATGTCTTCAAGCATGCTGCGGAGATGAGACAGATAG
 AGGTGTGACAGCAAGATGGAAGAACCACACACAATCCCCTGGATGTGAGGAGAGTGTGCTGGCAA
 GAGGAGTTGATGAAGATGAGACTGCCTACTCGCTCAGACATGATATGTGGCTATGCTTGCCTTAAAGGTA
 ATGCTGCCATGCGGAACCAAAACGGGGTTCCTGGTACATTGAGGCCCTCACTCAGGTGTCTCTGAAAG
 AGCTTGTGACATGCACGTGGCCGACATGCTTGTAAAGTGAATGCCCTTATCAAGGAGCGTGAAGGCTAT
 GCCCTGGCACAGAATCCACCGATGCAAGGAGATGTCTGAGTACTGTAGTACTGTGCCAGCAACTCT
 ACCTGTTCCAGGCTACCCACCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207227 representing NM_007610
 Red=Cloning site Green=Tags(s)

MAAPSGRSQSSLHRKGLMAADRRSRILAVCGMHPDHQETLKKNRVVLAKQLLSELLEHLLLEKDIITLEM
 RELIQAKGGFSQNVLLNLLPKRGPQAFDAFCEALRETRQGHLEDLLLTTLSDIQHVLPLSCDYDTSL
 PFSVCESECPHKQLRLSTDATEHSLDNGDGPPCLLVKPCCTPEFYQAHYQLAYRLQSQPRGLALVLSNVHF
 TGEKDLFRSGGDVDHTTLVTLFKLLGYNVHVLHDQTAQEMQEKLQNFQALPAHRVTDSCVVALLSHGVE
 GGIYGVGKLLQLQEVFRLFDNANCPSLQNKPKMFFIQACRGDETDGVDQDQDGNHTQSPGCEESDAGK
 EELMKMRLPTRSDMICGYACLKGNAMRNTRKGSWYIEALTQVFSERACDMHVADMLVKVNALIKEREGY
 APGTEFHRCKEMSEYCSLTCQQLYLFPGYPPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_007610

ORF Size: 1356 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

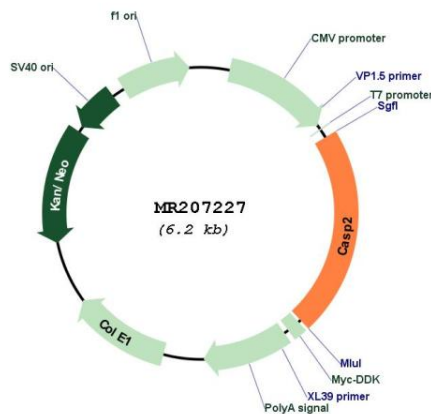
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_007610.2](#)
RefSeq Size: 3463 bp
RefSeq ORF: 1359 bp
Locus ID: 12366
UniProt ID: [P29594](#)
Cytogenetics: 6 20.54 cM
MW: 51.1 kDa

Gene Summary: This gene encodes the evolutionarily ancient and most conserved member of the cysteine proteases that plays important role in stress-induced apoptosis, DNA repair and tumor suppression. Mice lacking the encoded protein develop normally but display cell type-specific apoptotic defects. Germ cells and oocytes from such mice were found to be resistant to cell death after treatment with chemotherapeutic drugs. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR207227