

## Product datasheet for **MR207247**

### Casp9 (NM\_015733) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Casp9 (NM_015733) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Casp9
Synonyms:	A1115399; APAF-3; AW493809; Casp; CASP-9; Caspase-9; ICE-; ICE-LAP6; Mch6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207247 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACGAGGCGACCGGACGCTCTGCGCGATGCAGGGTGCCTAGTGAGCGAGCTGCAAGTCGCGG  
 AGCTCTGGGACGCTCTGCTGAGTCGAGAGCTCTTACGCCGACATGATCGAGGATATTCAGCAGGCAGG  
 ATCTGGGTCTCGGCGGGATCAGGCCAGGACGCTGGTACAGACCTTGAACCCGAGGAGGCAGGCCCTT  
 CCTCTCTCATCTCTGCTTAGAGGACACAGGCCAAGGCACCCTGGCTTCACTCTTGCAAAGCGGTGCGC  
 AAGCAGCCAAGCAGGATCCAGAGGCTGTTAAACCCCTAGACCACCTGGTGCCTGTGGTCTGGGACCAAT  
 GGGACTCACAGCAAAGGAGCAGAGAGTAGTGAAGCTGGACCCGTCACAGCCTGCCGTGGGAAACCTCACC  
 CCAGTGGTCTGGGGCCAGAAGAGCTCTGGCTGCTCGGCTCAAGCCAGAGGTTCTCAGACCAGAAACAC  
 CCAGGCCCGTGGACATTGGTTCTGGCGGAGCTCATGATGTCTGTGTTCCAGGGAAGATCAGGGGACATGC  
 AGATATGGCATAACCCCTGGATTCGATCCCTGTGGCCACTGCCTCATCAACAATGTGAACCTCTGC  
 CCTTCTCGGGGCTCGGCACACGCACGGCTCCAACCTGGACCGTGACAACTCGAGCACCGATTCCGCT  
 GGCTGCGCTTTCATGGTGGAGGTGAAGAAGACCTGACTGCCAAGAAAATGGTCACGGCTTTGATGGAGAT  
 GGCACACCCGAAACCACCTGCCCTGGACTGCTTTGTGGTGGTATCCTCTCTCATGGCTGCCAGGCCAGC  
 CACCTCCAGTTCCTGGGTGCTGTCTATGGGACAGATGGATGCTCCGTGTCCATTGAGAAAATTGTGAATA  
 TCTTCAACGGGAGCGGCTGCCCCAGCCTGGGAGGGAAGCCCAAGCTCTTCTTATCCAGGCCCTGCGGTG  
 TGAGCAGAAAGACCATGGCTTTGAGGTGGCCTGCACCTTCTCAAGGCAGGACCTTGGACAGTACTCT  
 GAGCCAGATGCTGTCCCCTATCAGGAAGGCCAAGGCCCTTGGACCAGCTGGATGCTGTGCAAGTTTGC  
 CTACCCCCAGTGACATCCTTGTGCTACTCCACCTTCCAGGTTTGTCTCCTGGAGGGACAAGAAAAG  
 TGGCTCCTGGTACATCGAGACCTTGGATGGCATTCTGGAGCAGTGGGCTCGCTCTGAAGACCTGCAGTCC  
 CTCTTCTCAGGGTTGCAATGCTGTTTCTGCGAAAGGGACTTACAAGCAGATTCTGGCTGTTTTAACT  
 TCCTCCGAAAAAGCTGTTTTTAAACTTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207247 protein sequence  
 Red=Cloning site Green=Tags(s)

MDEADRQLLRRCRVRLVSELQVAELWDALLSRELFTRDMIEDIQQAGSGSRRDQARQLVTDLETRGRQAL  
 PLFISCLEDTGQGLASLLQSGRQAAKQDPEAVKPLDHLVPVVLGPMGLTAKEQRVVKLDPSQPAVGNLT  
 PVVLGPEELWPARKPEVLRPETPRPVDIGSGGAHDVCPGKIRGHADMAYTLSDPCGHCLIIINNPNFC  
 PSSGLGTRTGSNLDLDRDKLEHRFRWLRFMVEVKNDLTAKKMVTALMEMAHRNHRALDCFVVVILSHGCQAS  
 HLQFPGAVYGTGCSVSIKIVNIFNGSGCPSLGGKPKLFFIQACGGEQKDHGFVACTSSQGRITLSDS  
 EPDAVPYQEGPRPLDQLDAVSSLPTPSDILVSYSTFPGFVSWRDKKSGSWYIETLDGILEQWARSEDLQS  
 LLLRVANAVSAKGTQKIPGCFNLRKLLFFKTS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_015733

ORF Size: 1365 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\\_015733.3](#)

RefSeq Size: 3899 bp

RefSeq ORF: 1365 bp

Locus ID: 12371

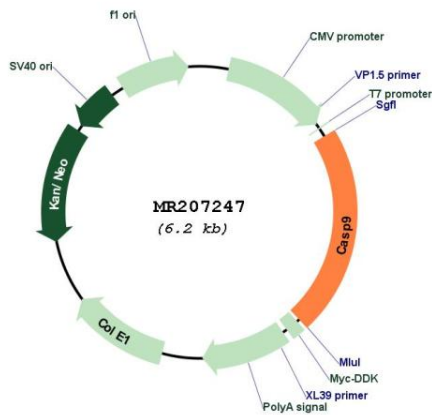
UniProt ID: [Q8C3Q9](#)

**Cytogenetics:** 4 D3

**MW:** 50 kDa

**Gene Summary:** This gene is part of a family of caspases, aspartate-specific cysteine proteases well studied for their involvement in immune and apoptosis signaling. This protein, the initiator caspase, is activated after cytochrome c release from mitochondria and targets downstream effectors. In mouse, deficiency of this gene can cause perinatal lethality. This protein may have a role in normal brain development. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Apr 2013]

**Product images:**



Circular map for MR207247