

Product datasheet for **RR206148**

Casp9 (NM_031632) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casp9 (NM_031632) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Casp9
Synonyms:	Apaf3; Casp-9-CTD; Casp9_v1; Ice-Lap6; Mch6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206148 representing NM_031632
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGAGGCTGACCGCAACTCTGCGCGATGCAGGGTACGCCTTGTGCGCAACTGCAAGTCGCGG
 AGCTGTGGGACGCTCTGCTGAGTCGTGAGCTCTTACGCGCGACATGATCGAGGATATTCAGCGGGCAGG
 CTCTGGGTCTCGGCGGGATCAGGCCAGGCACTGGTCATAGATCTTGAGACTCGAGGGAGGCAGGCCCTT
 CCTCGTTCATCTCTGCTTAGAGGACACAGGCCAAGGCTCTCTGGCTTATTCTTGCAAAGCAGTGGGC
 AAGCAGCCAAGCAGGATCCAGAAGCTGTTACCCCTAGACCCTGGTGCCTGTGGTCTGGGACCAAT
 GGGACTCAAATCAAAGGAGCAGAAAGTAGTGAAGCTGGACCCATCTCAGCCTGCCTTGGGAAACCTCACC
 CCAGTGGTGTGGGGCCGAAGAGCTCTGGCCTACTCGGCTCAGGCCAGAGGTTCTCACACCAGAAACAC
 CCAGGCCGGTGGACATTGGTTCTGGCAGAGCTCATGATGTCTGTACTCCAGGGAAGATCGAGAGACATGC
 AGATATGGCATACACCCTGGACTCGGATCCCTGTGGCCACTGCCTCATCAACAACGTGAAGTCTGTC
 CCTTCTCAGGGCTCAGCACACGCAATTGGCTCCCACGTGGACTGTGAGAAGCTTCAGCACCGCTTCTGCT
 GGCTGCGCTTTCATGGTGGAGGTGAAGAACGACCTGACTGCTAAGAAAATGGTCACGGCTTTGATGGAGAT
 GGCGCACCCGACACCCTGCCCTGGACTGCTTCGTGGTGGTTCATCCTCTCATGGCTGCCAGGCCAGC
 CACCTCCAGTTCCTGGGTGCTGTCTATGGCACAGATGGATGCTCTGTGTCCATCGAGAGAATTGTGAACA
 TCTTCAATGGGACCGGCTGCCCCAGCCTGGGAGGGAAGCCCAAGCTGTTCTTATCCAGGCCTGTGGTGG
 TGAGCAGAAAGACCATGGCTTTGAGGTGGCCTTCACTTCTCAAGACAAGGCCTTCGACAGTACTCT
 GAGCCAGATGCTGTCCCATACCAGGAAGGCCAAGGACCTTGACCAGCTGGACGCAGTGTCAAGTTTGC
 CCACCCCAAGTACATCCTTGTGTCCTACTCCACTTCCAGGTTTGTCTCCTGGAGACAAGAAGAG
 CGGTTCTCGGTACATCGAGACCTTGGATGGTCTCCTGGAGCAGTGGGCTCGCTCGGAAGACCTGCAGTCC
 CTCTTCTCAGGGTCGCCAATGCTGTTTCTGAGAAAGGGTTTATAAGCAGATTCTGGCTGTTTTAACT
 TCCTCCGAAGAAGCTGTTCTTTAAACTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206148 representing NM_031632
 Red=Cloning site Green=Tags(s)

MEEADRQLLRRCRVRLVRELQVAELWDALLSRELFTRDMIEDIQRAGSGSRRDQARQLVIDLETRGRQAL
 PRFISCLEDTGQGLASFLQSSGQAAKQDPEAVTPLDHLVPVVLGPMGLKSKEQKVVKLDPSQPALGNLT
 PVVLGPEELWPTLRPEVLTPEPRPVDIGSGRAHDVCTPGKIERHADMAYTLDSDCGHLIINNVC
 PSSGLSTRIGSHVDCEKLRHRCWLRFMVEVKNDLTAKMVTALMEMAHRDHRALDCFVVVILSHGCQAS
 HLQFPGAVYGTGCSVSIERIVNIFNGTGCPSLGGKPKLFFIQACGGEQKDHGFVAFTSSQDKAFDSDS
 EPDAVPYQEGPRTLQDLDAVSSLPTPSDILVSYSYTFPGFVSWRDKKSGSWYIETLDGVLEQWARSEDLQS
 LLLRVANAVSEKGVYKQIPGCFNFLRKKLFFKTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

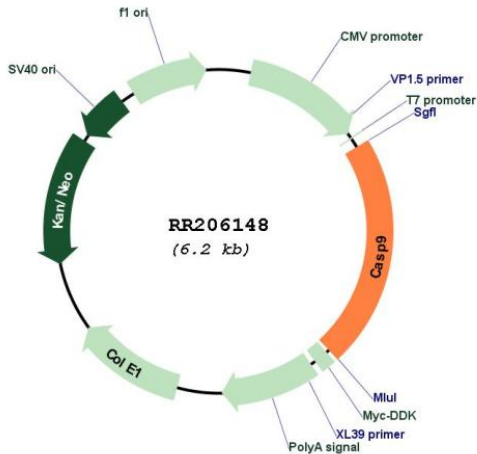
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031632

ORF Size: 1362 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_031632.1](#), [NP_113820.1](#)

RefSeq Size: 2391 bp

RefSeq ORF: 1365 bp

Locus ID: 58918

Cytogenetics: 5q36

MW: 50.4 kDa

Gene Summary: plays a role in initiation and progression of apoptosis [RGD, Feb 2006]