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Product datasheet for MR229743

Casp9 (NM_001277932) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casp9 (NM_001277932) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Casp9
Synonyms:	AI115399; 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)

ORF Nucleotide Sequence:

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>MR229743 representing NM_001277932
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGAGGCGGACCGGCAGCTCCTGCGGCGATGCAGGGTGCGCCTAGTGAGCGAGCTGCAAGTCGCGG
AGCTCTGGGACGCTCTGCTGAGTCGAGAGCTCTTCACGCGCGACATGATCGAGGATATTCAGCAGGCAGG
ATCTGGGTCTCGGCGGGATCAGGCCAGGCAGCTGGTCACAGACCTTGAGACCCGAGGGAGGCAGGCCCTT
CCTCTCTTCATCTCCTGCTTAGAGGACACAGGCCAAGGCACCCTGGCTTCACTCTTGCAAAGCGGTCGGC
AAGCAGCCAAGCAGGATCCAGAGGCTGTTAAACCCCTAGACCACCTGGTGCCTGTGGTCCTGGGACCAAT
GGGACTCACAGCAAAGGAGCAGAGAGTAGTGAAGCTGGACCCGTCACAGCCTGCCGTGGGAAACCTCACC
CCAGTGGTGCTGGGGCCAGAAGAGCTCTGGCCTGCTCGGCTCAAGCCAGAGGTTCTCAGACCAGAAACAC
CCAGGCCCGTGGACATTGGTTCTGGCGGAGCTCATGATGTCTGTGTTCCAGGGAAGATCAGGGGACATGC
AGATATGGCATACACCCTGGATTCGGATCCCTGTGGCCACTGCCTCATCATCAACAATGTGAACTTCTGC
CCTTCCTCGGGGCTCGGCACACGCACGGGCTCCAACTTGGACCGTGACAAACTTGAGCACCGATTCCGCT
GGCTGCGCTTCATGGTGGAGGTGAAGAACGACCTGACTGCCAAGAAAATGGTCACGGCTTTGATGGAGAT
GGCACACCGGAACCACCGTGCCCTGGACTGCTTTGTGGTGGTCATCCTCTCTCATGGCTGCCAGGCCAGC
CACCTCCAGTTCCCGGGTGCTGTCTATGGGACAGATGGATGCTCCGTGTCCATTGAGAAAATTGTGAATA
TCTTCAACGGGAGCGGCTGCCCCAGCCTGGGAGGGAAGCCCAAGCTCTTCTTCATCCAGGCCTGCGGTGG
TGAGCAGAAAGACCATGGCTTTGAGGTGGCCTGCACTTCCTCTCAAGGCAGGACCTTGGACAGTGACTCT
GAGCCAGATGCTGTCCCCTATCAGGAAGGCCCAAGGCCCTTGGACCAGCTGGATGCTGTGTCAAGTTTGC
CTACCCCCAGTGACATCCTTGTGTCCTACTCCACCTTCCCAGGTTGCCAATGCTGTTTCTGCGAAAGGGA
CTTACAAGCAGATTCCTGGCTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>MR229743 representing NM_001277932
Red=Cloning site Green=Tags(s)

MDEADRQLLRRCRVRLVSELQVAELWDALLSRELFTRDMIEDIQQAGSGSRRDQARQLVTDLETRGRQAL
PLFISCLEDTGQGTLASLLQSGRQAAKQDPEAVKPLDHLVPVVLGPMGLTAKEQRVVKLDPSQPAVGNLT
PVVLGPEELWPARLKPEVLRPETPRPVDIGSGGAHDVCVPGKIRGHADMAYTLDSDPCGHCLIINNVNFC
PSSGLGTRTGSNLDRDKLEHRFRWLRFMVEVKNDLTAKKMVTALMEMAHRNHRALDCFVVVILSHGCQAS
HLQFPGAVYGTDGCSVSIEKIVNIFNGSGCPSLGGKPKLFFIQACGGEQKDHGFEVACTSSQGRTLDSDS
EPDAVPYQEGPRPLDQLDAVSSLPTPSDILVSYSTFPGCQCCFCERDLQADSWLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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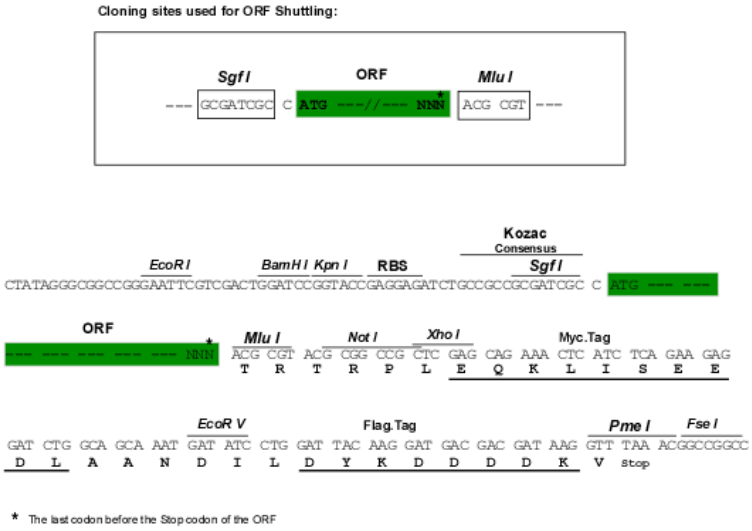
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001277932

ORF Size: 1215 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).

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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_001277932.1, NP_001264861.1

RefSeq Size: 3789 bp

RefSeq ORF: 1218 bp

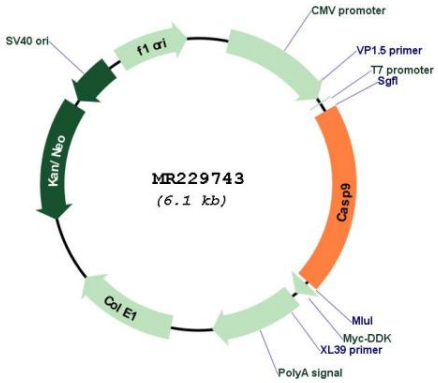
Locus ID: 12371

Cytogenetics: 4 D3

MW: 44.8 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 MR229743

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