

Product datasheet for MR205770

Casp4 (NM_007609) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casp4 (NM_007609) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Casp4
Synonyms:	Cas; CASP-4; CASP-11; Casp11; Caspa; Caspl; ich-; ich-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205770 representing NM_007609 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAAAACAAACACCCTGACAAACCACTTAAGGTGTTGGAACAGCTGGGCAAAGAAGTCCTTACGG
AGTACCTAGAAAAATTAGTACAAAGCAATGTACTGAAATTAAGGAGGAAGATAAACAAAAATTTAACAA
TGCTGAACGCAGTGACAAGCGTTGGGTTTTGTAGATGCCATGAAAAAGAAACACAGCAAAGTAGGTGAA
ATGCTTCTCCAGACATTCTCAGTGTGGACCCAGGCAGCCACCATGGTGAAGCTAATCTGAAATGGAGG
AACCAGAAGAATCATTGAACACTCTCAAGCTTTGTTCCCTGAAGAGTTCACAAGCTTTGCAGAGAAAA
GACACAAGAAATTTACCCAATAAAGAAGCCAATGGCCGTACACGAAAGGCTCTTATCATATGCAATACA
GAGTTCAAACATCTCTCACTGAGGTATGGGGCTAACTTTGACATCATTGGTATGAAAGGCCCTTCTTGAAG
ACTTAGGCTACGATGTGGTGGTAAAGAGGAGCTTACAGCAGAGGGCATGGAGTCAGAGATGAAAGACTT
TGCTGCACTCTCAGAACCAGACATCAGACAGCACATTCCTGGTGCTAATGTCTCATGGCACACTGCAT
GGCATTGTGGAACAATGCACAGTGAAAAAACCAGATGTGCTACAGTATGATACCATCTATCAGATAT
TCAACAATTGCCACTGTCCAGGTCTACGAGACAAACCCAAAGTCATCATTGTGCAGGCCTGCAGAGGTGG
GAACTCTGGAGAAATGTGGATCAGAGAGTCTTCAAACCCAGTTGTGCAGAGGTGTAGATCTACCTAGG
AATATGGAAGCTGATGCTCAAGCTGAGCCACGTGGAGAAGACTTCATTGCCTTCTACTACAACCC
CACATCACTTGTCTACGAGACAAAACAGGAGGCTCTTACTTCATCACTAGACTATTTCTGCTTCCG
GAAACATGCTTGTCTTGTCTCTTTGATATATTTCTGAAGGTGCAACAATCATTGAAAAGGCAAGT
ATTCATTCCAGATGCCACCATTGATCGGGCAACCTTGACGAGATATTTCTACCTTTCTGCGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205770 representing NM_007609
 Red=Cloning site Green=Tags(s)

MAENKHPDKPLKVLEQLGKEVLTEYLEKLVQSNVLKLEEDKQKFNNAERSDKRWVVDAMKKKHSKVGE
 MLLQTFFSVDPGSHHGEANLEMEPEESLNTLKLCSPEEFTRLCREKTQEIYPIKKANGRTRKALIIICNT
 EFKHLSLRYGANFDIIGMKLLEDLGYDVVVKEELTAEGMESEMKDFAALSEHQTSDFLVLMSHGTLH
 GICGTMHSEKTPDVLQYDTIYQIFNNCHCPGLRDKPKVIIVQACRGGNSGEMWIRESSKPOLCRGVDLPR
 NMEADAVKLSHVEKDFIAFYSTTPHLSYRDKTGGSYFITRLISCFRKHACSCHLFDIFLKVQSFEEKAS
 IHSQMPTIDRATLTRYFYLFPGN

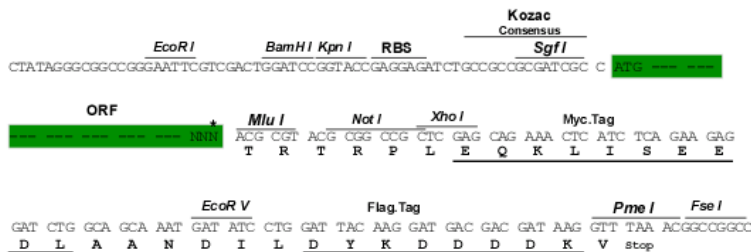
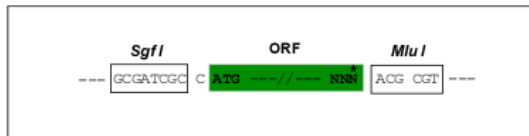
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007609

ORF Size: 1119 bp

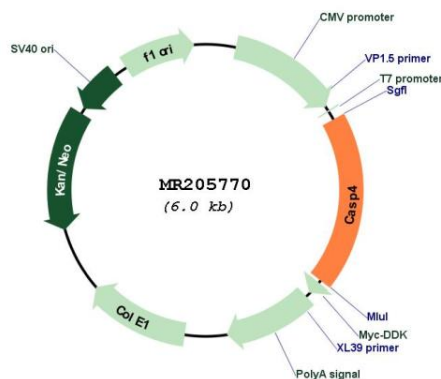
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<ol style="list-style-type: none"> 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_007609.1 , NM_007609.2 , NM_007609.3 , NP_031635.1
RefSeq Size:	1350 bp
RefSeq ORF:	1122 bp
Locus ID:	12363
UniProt ID:	P70343
Cytogenetics:	9 2.46 cM
MW:	43.2 kDa
Gene Summary:	<p>This gene encodes a member of the cysteine proteases that plays important roles in apoptosis, cell migration and the inflammatory response. The encoded protein mediates production of pro-inflammatory cytokines by macrophages upon bacterial infection. Mice lacking the encoded protein are resistant to endotoxic shock induced by lipopolysaccharide. A 5-bp deletion encompassing a splice acceptor junction resulting in alternate splicing and a shorter non-functional isoform in certain mouse strains has been described. Although its official nomenclature is "caspase 4, apoptosis-related cysteine peptidase", this gene and its encoded protein have historically been called caspase 11. This gene is present in a cluster of three caspase genes on chromosome 9. [provided by RefSeq, Apr 2015]</p>

Product images:



Circular map for MR205770

