

Product datasheet for **MR207700**

Casp8 (NM_001080126) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casp8 (NM_001080126) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Casp8
Synonyms:	Casp; CASP-8; FLI; FLICE; MAC; MACH; Mch5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207700 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTTCAGAGTTGTCTTTATGCTATTGCTGAAGAACTGGGCAGTGAAGACCTGGCTGCCCTCAAGT
 TCCTGTGCTTGGACTACATCCCACACAAGAAGCAGGAGACCATCGAGGATGCCAGAAAGCTATTTCTGAG
 GCTGCGGGAAAAGGGGATGTTGGAGGAAGGCAATCTGTCTTTCCTGAAAGAGCTGCTTTTCCACATCAGT
 CGGTGGGACCTGCTGGTCAACTCCTAGACTGCAACCGAGAGGAGATGGTGAAGAGCTGCGGGATCCAG
 ACAATGCCAGATTTCTCCCTACAGGGTCATGCTCTTAAAGCTCTCAGAAGAAGTGAAGAGTTGGAATT
 GAGATCTTTAAGTTCCTTTTGAACAATGAGATCCCCAAATGTAAGCTGGAAGATGACTTGAGCCTGCTT
 GAAATTTTGTAGAAATGGAGAAGAGGACCATGCTGGCAGAAAATAACTTGAAACCCTAAAATCAATCT
 GTGACCAGGTCAACAAGAGCCTGCTGGGAAGATCGAGGATTATGAAAGATCAAGCACAGAGAGAAGAT
 GAGCCTTGAAGGAAGGAAGAGTTGCCACCTTCAGTTTTGGATGAGATGAGCCTCAAATGGCGGAAGT
 TGTGACTCGCCAAGAGAACAAGACAGTGAAGTACGGACTTCAGACAAAGTTTACCAAATGAAGAACAAC
 CTCGGGGATACTGTCTGATCATCAACAATCATGATTTTCAGCAAGGCCCGGAAGACATAACCCAACCTCCG
 AAAATGAAGGACAGAAAAGGAACAGACTGTGATAAAGAGGCTCTGAGTAAGACCTTTAAGGAGCTTCAT
 TTTGAGATAGTATCTTACGACGACTGCACTGCAATGAAATCCACGAGATTCTAGAAGGCTACCAAAGCG
 CAGACCACAAGAACAAGACTGCTTCATCTGCTGTATCCTATCCCACGGTGACAAGGGTGTCTGTATGG
 AACGGATGGGAAGGAGGCTCCATCTATGACCTGACATCTTACTCACTGGTTCAAAGTGCCTTCCCTG
 TCTGGGAAACCAAGATCTTTTTTCAATCAGGCTTGCCAAGGAAGTAACTCCAGAAGGAGTGCCTGATG
 AGCAGGCTTCGAGCAACAGAACCACACTTTAGAAGTGGATTATCATCTCACAAGAACTATATTTCCGGA
 TGAGGCAGACTTTCTGCTGGGAATGGCTACGGTGAAGAAGTGCCTTTCCTACCGAGATCCTGTGAATGGA
 ACCTGGTATATTCAGTCACTTTGCCAGAGCCTGAGGGAAGATGTCTCAAGGAGATGACATTTTAGCA
 TCCTGACTGGCGTGAAGTATGACGTGAGCAATAAAGACGACAGGAGGAACAAGGGAAGCAGATGCCACA
 GCCCACCTTCACACTACGGAAGAAGCTCTTCTCCCTCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207700 protein sequence
 Red=Cloning site Green=Tags(s)

MDFQSCLYAI A EELGSEDLAALKFLCLDYIPHKQETIEDAQKFLRLREKGMLEEGNLSFLKELLFHIS
 RWDLLVNF LDCNREEMVREL RDPDNAQISPYRVMLFKLSEEVSELELRSFKFLLNNEIPKCKLEDDL SLL
 EIFVEMEKRTMLAENNLETLKSI CDQVNKSL LGKIEDYERSSTERRMSLEGREELPPSVLDEM SLKMAEL
 CDSPREQDSESR TSDKVYQMKNKPRGYCL IINN HDFS KARE DITQLRKM KDRKGTDCDKEALSKTFKELH
 FEIVSYDDCTANEIHEILEGYQSADHKNKDCFICILSHGDKGVVYGTGKEAS IYDLT SYFTGSKCPSL
 SGKPKIFFIQACQGSNFQKGVPEAGFEQQNHTLEV DSSSHKNYIPDEADFLGMATVKNCVSYRDPVNG
 TWYIQLCQSLRERCPQGGDILSILTG VNYDVSNKDDRRNKGKQMPQPTFTLRKKLFFPP

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001080126

ORF Size: 1443 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.

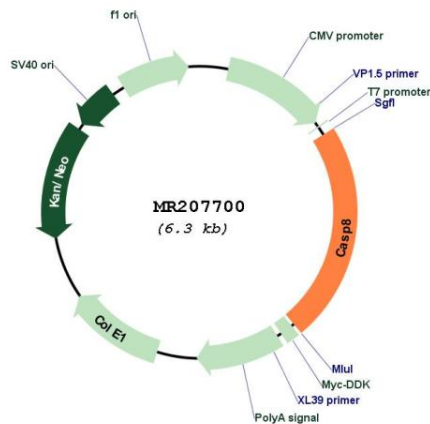
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001080126.1, NP_001073595.1](#)
RefSeq Size: 2412 bp
RefSeq ORF: 1443 bp
Locus ID: 12370
UniProt ID: [O89110](#)
Cytogenetics: 1 29.19 cM
MW: 55.4 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, an initiator of apoptotic cell death, is activated by death-inducing tumor necrosis family receptors and targets downstream effectors. In mouse deficiency of this gene can cause embryonic lethality. This protein may have a role in embryogenesis. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Apr 2013]

Product images:



Circular map for MR207700