

Product datasheet for **MG207700**

Casp8 (NM_009812) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casp8 (NM_009812) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Casp8
Synonyms:	Casp; CASP-8; FLI; FLICE; MAC; MACH; Mch5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207700 representing NM_009812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGATTTCAGAGTTGTCTTTATGCTATTGCTGAAGAACTGGGCAGTGAAGACCTGGCTGCCCTCAAGT
 TCCTGTGCTTGGACTACATCCCACACAAGAAGCAGGAGACCATCGAGGATGCCAGAAAGCTATTTCTGAG
 GCTGCGGGAAAAGGGGATGTTGGAGGAAGGCAATCTGTCTTTCCTGAAAGAGCTGCTTTCCACATCAGT
 CGGTGGGACCTGCTGGTCAACTCCTAGACTGCAACCGAGAGGAGATGGTGAAGAGCTGCGGGATCCAG
 ACAATGCCAGATTTCTCCCTACAGGGTCATGCTCTTAAAGCTCTCAGAAGAAGTGAAGGAGTTGGAATT
 GAGATCTTTAAGTTCCTTTGAACAATGAGATCCCCAAATGTAAGCTGGAAGATGACTTGAGCCTGCTT
 GAAATTTTGTAGAAATGGAGAAGAGGACCATGCTGGCAGAAAATAACTTGAAACCTAAAATCAATCT
 GTGACCAGGTCAACAAGAGCCTGCTGGGAAGATCGAGGATTATGAAAGATCAAGCACAGAGAGAAGAT
 GAGCCTTGAAGGAAGGAAGAGTTGCCACCTTCAGTTTTGGATGAGATGAGCCTAAAATGGCGGAAGT
 TGTGACTCGCCAAGAGAACAAGACAGTGAAGTACGGACTTCAGACAAAGTTTACCAAATGAAGAACAAC
 CTCGGGGATACTGTCTGATCATCAACAATCATGATTTAGCAAGGCCCGGAAGACATAACCCAACCTCCG
 AAAATGAAGGACAGAAAAGGAACAGACTGTGATAAAGAGGCTCTGAGTAAGACCTTTAAGGAGCTTCAT
 TTTGAGATAGTATCTTACGACGACTGCACTGCAATGAAATCCACGAGATTCTAGAAGGCTACCAAAGCG
 CAGACCACAAGAACAAGACTGCTTCATCTGCTGTATCCTATCCCACGGTGACAAGGGTGTGCTGTATGG
 AACGGATGGGAAGGAGGCTCCATCTATGACCTGACATCTTACTCACTGGTTCAAAGTGCCCTTCCTG
 TCTGGGAAACCAAGATCTTTTTCATTCAGGCTTGCCAAGGAAGTAACTCCAGAAAGGAGTGCCTGATG
 AGGCAGGCTTCGAGCAACAGAACCACACTTTAGAAGTGGATTTCATCATTCACAAGAACTATATTCGGGA
 TGAGGCAGACTTTCTGCTGGGAATGGCTACGGTGAAGAAGTGCCTTTCTACCGAGATCCTGTGAATGGA
 ACCTGGTATATTCAGTCACTTTGCCAGAGCCTGAGGGAAGATGTCTCAAGGAGATGACATTTTAGCA
 TCCTGACTGGCGTGAAGTATGACGTGAGCAATAAAGACGACAGGAGGAACAAGGGAAGCAGATGCCACA
 GCCCACCTTCACACTACGAAGAAGCTCTTCTCCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207700 representing NM_009812
 Red=Cloning site Green=Tags(s)

MDFQSCLYAI AEELGSEDLAALKFLCLDYIPHKQETIEDAQKFLRLREKGMLEEGNLSFLKELLFHIS
 RWDLLVNFLDCNREEMVREL RDPDNAQISPYRVMLFKLSEEVSELELRSFKFLNNEIPKCKLEDDL SLL
 EIFVEMEKRTMLAENNLETLSICDQVNKSLGKIEDYERSSTERRMSLEGREELPPSVLDEM SLKMAEL
 CDSPREQDSESRSDKVYQMKNKPRGYCL IINNHD FSKARE DITQLRKMKDRKGTDCDKEALSKTFKELH
 FEIVSYDDCTANEIHEILEGYQSADHKNKDCF ICCILSHGDKGVVYGTGKEAS IYDLTSYFTGSKCPSL
 SGKPKIFFIQACQGSNFQKGVPEAGFEQQNHTLEVDSSSHKNYIPDEADFLGMATVKNCVSYRDPVNG
 TWYIQLCQSLRERCPQGDDILSILTG VNYDVSNKDDRRNKGKQMPQPTFTLRKKLFFPP

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2157_a10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_009812

ORF Size: 1440 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.

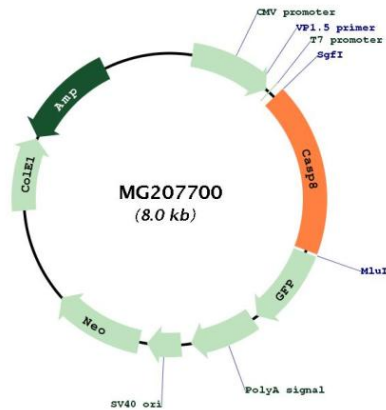
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_009812.2](#)
 RefSeq Size: 2585 bp
 RefSeq ORF: 1443 bp
 Locus ID: 12370
 UniProt ID: [O89110](#)
 Cytogenetics: 1 29.19 cM

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 MG207700