

Product datasheet for **MG203708**

Casp6 (NM_009811) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casp6 (NM_009811) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Casp6
Synonyms:	CASP-6; mCAS; Mch2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203708 representing NM_009811 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGAAACCGATGGCTTCTACAAAAGTAGGGAAGTGTTTCGATCCAGCCGAGCAGTACAAGATGGACC
ACAAGAGGAGAGGAGTTGCCCTCATCTTCAATCACGAGAGGTTCTTTGGCACCTGACCCTCCAGAGAG
GCGGGGCACCAACGCAGACAGAGACAACCTGACTCGCAGGTTTTTCAGATCTAGGATTTGAAGTAAATGC
TTTAACGACCTCAGAGCAGAAGAACTCCTGCTCAAAATTCACGAGGTGTCGACTTCAAGCCACATAGATG
CCGATTGCTTCATCTGTGTCTTCTGAGCCACGGGAAGGCAACCACGTTTACGCATACGACGCCAAAAT
TGAAATTCAGACGTTGACTGGCTTGTTCAAAGGAGACAAATGTCAGAGCCTGGTTGGAAAACCCAAGATA
TTTATCATCCAGGCTGTGCGGGCAGCCAGCATGACGTACCTGTGGTTCCCTGGACGTGGTGGATCACC
AGACAGACAAGCTGGACAACGTGACCCAGGTGGATGCTGCGTCTGTGTACACGCTGCCGGCAGGGGCAGA
CTTCTCATGTGCTACTCTGTCGAGAAGGGTATTACTCTCACCGAGAACTGTGAATGGCTCCTGGTAC
ATTCAGGATTTGTGTGAGATGCTGGCAGGTACGGCAGTTCCTGGAGTTCACGGAGCTGCTCACGCTGG
TGAACAGAAAGTCTCTCAGCGCCGCTGGACTTCTGCAAAGACCCGGATGCAATCGGCAAGAAGCAGGT
GCCCTGCTCGCCTCAATGCTGACCAAAAAGCTGCATTTCTGTCCCAAACCTAGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203708 representing NM_009811
 Red=Cloning site Green=Tags(s)

MTETDGFYKSREVFDPAEQYKMDHKRRGVALIFNHERFFWHLTLERRGTNADRDNLTRRFSDLGFEVKC
 FNDLRAEELLLKIEHVSTSSHIDADCFICVFLSHGEGNHVYAYDAKIEIQTLTGLFKGDKCQSLVGKPKI
 FIIQACRGSQHDVPVPLDVVDHQTDKLDNVTQVDAASVYTLTLAGADFLMCYSVAEGYYSHRETVNGSWY
 IQDLCEMLARYGSSLEFTTELLTLVNRKVSQRRVDFCKDPDAIGKKQVPCFASMLTKKLHFCPKPSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009811

ORF Size: 828 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_009811.2](#), [NP_033941.2](#)

RefSeq Size: 1281 bp

RefSeq ORF: 831 bp

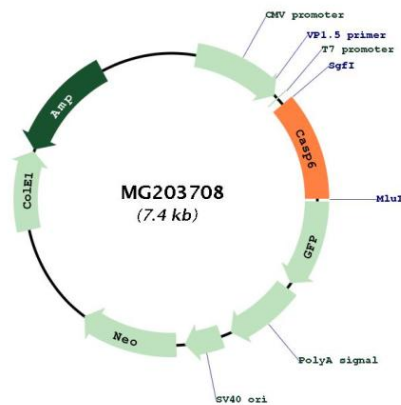
Locus ID: 12368

UniProt ID: [O08738](#)

Cytogenetics: 3 G3

Gene Summary: This gene encodes a member of the cysteine proteases that plays important roles in regulating apoptosis and neurodegeneration. The encoded protein is involved in the transmission of pain and axonal degeneration. Genetic deletion of this gene in mice results in the delay of axon pruning and protects from axon degeneration. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MG203708