

## Product datasheet for **MG204235**

### Casp7 (NM\_007611) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Casp7 (NM_007611) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Casp7
Synonyms:	AI314680; caspase-7; CMH-1; ICE-IAP3; mCASP-7; Mch3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204235 representing NM_007611 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCGATGATCAGGACTGTGCTGCGGAGCTGGAAAAGGTGGATTCTTCCAGCGAAGACGGAGTTGACG  
CCAAGCCAGACCGCTCCTCTATCATCTCCTCTATTCTCTTGAAGAAGAAGAGAAATGCCTCTGCGGGCCC  
CGTCAGGACCGCGGGACCGAGTGCCCACTTATCTGTACCGCATGGATTCCAGAAGATGGTAAATGC  
ATCATATAAACAACAAGAACTTCGACAAAGCGACAGGTATGGACGTCCGGAATGGACGGACAAAGATG  
CAGGGGCCCTCTCAAGTGCTTCCAAAACCTGGGTTTTGAAGTAACCGTCCACAATGACTGCTCTTGTC  
AAAGATGCAAGATCTGCTTAGAAAAGCCTCTGAGGAGGACCACAGCAACTCGGCCTGCTTCGCCTGCCTC  
CTGCTGAGCCACGGGGAAGAGGACCTGATTTACGGGAAAGATGGCGTGACACCCATAAAGGATCTGACAG  
CTCATTTTAGGGGAGACCGATGCAAAACCTGTTAGAGAAAACCCAACTCTTCTTCATTCAGGCATGCCG  
AGGGACGGAGCTCGATGATGGAATCCAGGCTGACTCGGGGCCATCAACGACATTGACGCTAATCCCCGC  
ACAAGATCCCGGTGGAAGCCGACTTCTCTTTGCTTACTCCACGGTTCAGGTTATTACTCATGGAGGA  
ACCCAGGAAAGGCTCCTGGTTTGTGCAGGCCCTCTGCTCCATCTGAATGAGCATGGCAAGGACCTCGA  
GATCATGCAGATCCTGACCAGGGTGAACGACAGGGTGGCCAGGCCTTCGAGTCCCAGTCTGATGATCCA  
CGCTTCAACGAGAAGAAGCAGATCCCGTGTATGGTGTCCATGCTCACAAAGAGCTGTACTTCAGCCGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204235 representing NM\_007611  
 Red=Cloning site Green=Tags(s)

MTDDQDCAAEELEKVDSSSEdGVDAKpDRSSIISSILLKKKRNASAGpVRTGRDRVPTYLrMDFQkMGKC  
 IiINnkNfDKATgMDVRNGTDKdAGALFKCFQNLGFEVtVhNDcSAKMQDlLRKASEEDHSNSACfACV  
 LLShGEEDLIYgKdGVTPiKDLTAHFRGDRCKTLLEKPKLFFiQACRGTElDDGIQADSGPINDIDANPR  
 NKIPVEADFLfAYSTVPGYYSWRNPGKGSWFVQALCSILNEHGKdLEIMQILTRVNDRVARHFESQSDDP  
 RFNEKKQIPCMVSMlTKELYFSR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007611

**ORF Size:** 909 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\\_007611.2](#), [NP\\_031637.1](#)

**RefSeq Size:** 2350 bp

**RefSeq ORF:** 912 bp

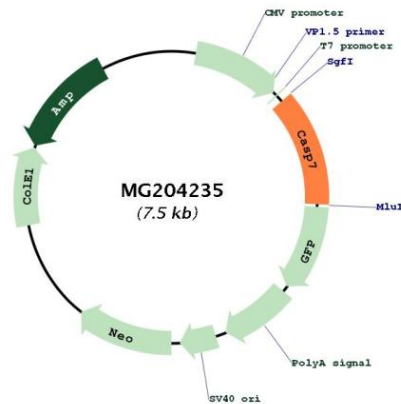
**Locus ID:** 12369

**UniProt ID:** [P97864](#)

**Cytogenetics:** 19 51.84 cM

**Gene Summary:** Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Overexpression promotes programmed cell death (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG204235