

## Product datasheet for **RG200635**

### Caspase 9 (CASP9) (NM\_001229) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 9 (CASP9) (NM_001229) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Caspase 9
Synonyms:	APAF-3; APAF3; ICE-LAP6; MCH6; PPP1R56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200635 representing NM_001229 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGAAGCGGATCGGCGGCTCTGCGGCGGTGCCGGCTGCGGCTGGTGAAGAGCTGCAGGTGGACC  
AGCTCTGGGACGCCCTGCTGAGCCGCGAGCTGTTCAAGCCCATATGATCGAGGACATCCAGCGGCAGG  
CTCTGGATCTCGGCGGGATCAGGCCAGGCAGCTGATCATAGATCTGGAGACTCGAGGGAGTCAGGCTCTT  
CCTTTGTTTCATCTCTGCTTAGAGGACACAGGCCAGGACATGCTGGCTTCGTTTCTGCGAACTAACAGGC  
AAGCAGCAAAGTTGTCGAAGCCAACCTAGAAAACCTTACCCAGTGGTCTCAGACCAGAGATTCGCAA  
ACCAGAGGTTCTCAGACCGGAAACACCCAGACCAGTGGACATTGGTTCTGGAGGATTTGGTGATGTCGGT  
GCTCTTGAGAGTTTGAGGGGAAATGCAGATTTGGCTTACATCCTGAGCATGGAGCCCTGTGGCCACTGCC  
TCATTATCAACAATGTGAACTTCTGCCGTGAGTCCGGGCTCCGCACCCGCACTGGCTCCAACATCGACTG  
TGAGAAGTTGCGGCGTCGCTTCTCCTCGCTGCATTTTCAATGGTGGAGGTGAAGGGCGACCTGACTGCCAAG  
AAAATGGTGTGGCTTTGCTGGAGCTGGCGCAGCAGGACCACGGTGTCTGGACTGCTGCGTGGTGGTCA  
TTCTCTCACGGCTGTCAGGCCAGCCACCTGCAGTCCCAGGGGCTGTCTACGGCACAGATGGATGCC  
TGTGTCCGTCGAGAAGATTGTGAACATCTCAATGGGACCAGCTGCCCCAGCCTGGGAGGGAAAGCCCAAG  
CTCTTTTTCATCCAGGCCTGTGGTGGGAGCAGAAAGACCATGGGTTTGGGTGGCCTCCACTTCCCCTG  
AAGACGAGTCCCCTGGCAGTAACCCCGAGCCAGATGCCACCCCGTTCCAGGAAGGTTTGGAGACCTTCGA  
CCAGCTGGACGCCATATCTAGTTTGCCACACCCAGTGACATCTTTGTGTCTACTCTACTTTCCAGGT  
TTTGTTCCTGGAGGGACCCCAAGAGTGGCTCCTGGTACGTTGAGACCCTGGACGACATCTTTGAGCAGT  
GGGCTCACTCTGAAGACCTGCAGTCCCTCCTGCTTAGGGTCGCTAATGCTGTTTCGGTGAAGGGATTTA  
TAAACAGATGCCTGGTTGCTTTAATTTCTCCGAAAAAACTTTTCTTTAAACATCA

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200635 representing NM\_001229  
 Red=Cloning site Green=Tags(s)

MDEADRRLLRRCRLRLVEELQVDQLWDALLSRELFRPHMIEDIQRAGSGSRRDQARQLIIDLETRGSQAL  
 PLFISCLEDTGQDMLASFLRTNRQAAKL SKPTLENLTPVLRPEIRKPEVLRPETPRPVDIGSGGFGDVG  
 ALESLRGNADLAYILSMEPCGHCLIIINNPNFCRESGLRTRTGSNIDCEKLRRRFSSLHFMVEVKGDLTAK  
 KMYLALLELAQQDHGALDCCVVVILSHGCQASHLQFPGAVYGTGDCPVSVEKIVNIFNGTSCPSLGGKPK  
 LFFIQACGGEQKDHGFEVASTSPEDESPPGNSNPEPDATPFQEGLRTFDQLDAISSLPDIFVSYSTFPG  
 FVSWRDPKSGSWYVETLDDIFEQWAHSEDLQSLLLRVANAVSVKGIYKQMPGCFNFKLFFKTS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001229

**ORF Size:** 1248 bp

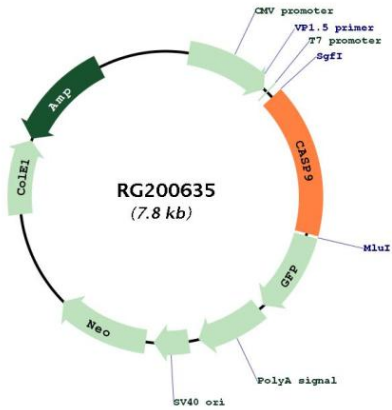
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001229.5</a>
<b>RefSeq Size:</b>	2034 bp
<b>RefSeq ORF:</b>	1251 bp
<b>Locus ID:</b>	842
<b>UniProt ID:</b>	<a href="#">P55211</a>
<b>Cytogenetics:</b>	1p36.21
<b>Domains:</b>	Peptidase_C14, CARD, CASc
<b>Protein Families:</b>	Druggable Genome, Protease, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Endometrial cancer, Huntington's disease, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Parkinson's disease, Pathways in cancer, Prostate cancer, Small cell lung cancer, VEGF signaling pathway, Viral myocarditis
<b>Gene Summary:</b>	<p>This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]</p>

Product images:



Circular map for RG200635