

Product datasheet for **MG227666**

Casp1 (NM_009807) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casp1 (NM_009807) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Casp1
Synonyms:	ICE; Il1bc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227666 representing NM_009807 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGACAAGATCCTGAGGGCAAAGAGGAAGCAATTTATCAACTCAGTGAGTATAGGGACAATAAATG
GATTGTTGGATGAACTTTAGAGAAGAGAGTGCTGAATCAGGAAGAAATGGATAAAATAAACTTGCAA
CATTACTGCTATGGACAAGGCACGGGACCTATGTGATCATGTCTCTAAAAAGGGCCCCAGGCAAGCCAA
ATCTTTTACTTACATTTGTAATGAAGACTGCTACCTGGCAGGAATTCGGAGCTTCAATCAGCTCCAT
CAGCTGAAACATTTGTTGCTACAGAAGATTCTAAAGGAGGACATCCTTCATCCTCAGAAACAAAGGAAGA
ACAGAACAAGAAGATGGCACATTTCCAGGACTGACTGGGACCCTCAAGTTTTGCCCTTTAGAAAAAGCC
CAGAAGTTATGGAAAGAAAATCCTTCAGAGATTTATCCAATAATGAATACAACCCTCGTACACGCTTGT
CCCTCATTATCTGCAACACAGAGTTTCAACATCTTTCTCCGAGGGTTGGAGCTCAAGTTGACCTCAGAGA
AATGAAGTTGCTGCTGGAGGATCTGGGGTATACCGTGAAAGTGAAGAAAATCTCACAGCTCTGGAGATG
GTGAAAGAGGTGAAAGAATTTGCTGCCTGCCAGAGCACAAAGACTTCTGACAGTACTTTCCTTGTATTCA
TGTCTCATGGTATCCAGGAGGGAATATGTGGGACCACATACTCTAATGAAGTTTCAGATATTTAAAGGT
TGACACAATCTTTCAGATGATGAACACTTTGAAGTGCCCAAGCTTGAAGACAAGCCCAAGGTGATCATT
ATTCAGGCATGCCGTGGAGAGAAACAAGGAGTGGTGGTTTAAAGATTTCAGTAAGAGACTCTGAAGAGG
ATTTCTTAACGGATGCAATTTTTGAAGATGATGGCATTAAAGAGGCCATATAGAGAAAGATTTTATTGC
TTTCTGCTCTTCAACACCAGATAATGTGTCTTGGAGACATCCTGTGAGGGCTCACTTTTTCATTGAGTCA
CTCATCAAACACATGAAAGAATATGCCTGGTCTTGTGACTTGGAGGACATTTTCAGAAAGGTTTCGATTTT
CATTTGAACAACCAGAATTTAGGCTACAGATGCCACTGCTGATAGGGTGACCCTGACAAAACGTTTCTA
CCTTTCCCGGGACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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MADKILRAKRKQFINSVIGTINGLLDELLEKRVLNQEEMDKIKLANITAMDKARDLCDHVSCKGPQASQ
 IFITYICNEDCYLAGILELQSAPSAETFVATEDSKGGHPSSSETKEEQNKEDGTFPGLTGLTKFCPLEKA
 QKLWKENPSEIYPIMNTTTRTRLALIICNTEFQHLSPRVGAQVDLREMKLLLEDLGYTVKVENLTALEM
 VKEVKEFAACPEHKTSDSTFLVFMESHGIEGICGTTYSNEVSDILKVDITFQMMNTLKCPSLKDKPKVII
 IQACRGEKQGVLLKDSVRDSEEDFLTDAIFEDDGIKKAHIEKDFIAFCSSTPDNVSWRHPVRGSLFIES
 LIKHMKEYAWSCDLEDIFRKVRFSEFQPEFRLQMPTADRVTLTKRFYLFPGH

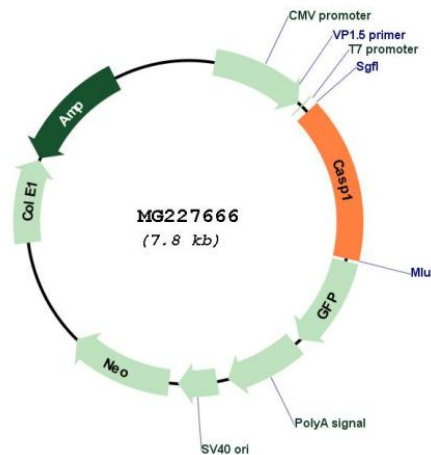
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009807

ORF Size:	1206 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_009807.2 , NP_033937.2
RefSeq Size:	1533 bp
RefSeq ORF:	1209 bp
Locus ID:	12362
UniProt ID:	P29452
Cytogenetics:	9 2.46 cM
Gene Summary:	<p>Thiol protease that cleaves IL-1 beta between an Asp and an Ala, releasing the mature cytokine which is involved in a variety of inflammatory processes. Important for defense against pathogens. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Can also promote apoptosis (By similarity). Upon inflammasome activation, during DNA virus infection but not RNA virus challenge, controls antiviral immunity through the cleavage of CGAS, rendering it inactive (PubMed:28314590). In apoptotic cells, cleaves SPHK2 which is released from cells and remains enzymatically active extracellularly (By similarity). [UniProtKB/Swiss-Prot Function]</p>