

Product datasheet for **RG229221**

Caspase 5 (CASP5) (NM_004347) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 5 (CASP5) (NM_004347) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CASP5
Synonyms:	ICE(rel)III; ICEREL-III; ICH-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229221 representing NM_004347 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAAGACAGTGGCAAAAAAAAAAGGCGTAAGAATTTTGAAGCTATGTTCAAAGGTATCCTTCAGA
GTGGATTGGATAACTTCGTGATAAACCACATGCTAAAGAACAACGTGGCTGGACAAACATCTATCCAGAC
CCTAGTACCTAATACGGATCAAAAGTCGACCAGTGTAAAAAAGACAACCACAAAAAACAAGTTAAG
ATGTTGGAATACCTGGGCAAAGATGTTCTTCATGGTGTTTTAAATTATTTGGCAAAACACGATGTTCTGA
CATTGAAGGAAGAGGAAAAGAAAAATATTATGATACCAAAATGAAGACAAGGCCCTGATCTTGGTAGA
CTCTTTGCGAAAAGATCGCGTGGCTCATCAATGTTTACCCAAACACTTCTCAATATGGACCAAAAGATC
ACCAGTGTAAAACCTCTTCTGCAAAATCGAGGCTGGACCACCTGAGTCAGCAGAATCTACAAATATACTCA
AACTTTGTCTCGTGAAGAATTCCTGAGACTGTGTAAAAAATCATGATGAGATCTATCCAATAAAAAA
GAGAGAGGACCGCAGACGCTGGCTCTCATCATATGCAATACAAAGTTTGTACCTGCCTGCAAGGAAT
GGGGCTCACTATGACATCGTGGGATGAAAAGGCTGCTCAAGGCCTGGGCTACACTGTGGTTGACGAAA
AGAATCTCACAGCCAGGGATATGGAGTCAGTGTGAGGGCATTGCTGCCAGACCAGAGCACAAGTCCTC
TGACAGCACGTTCTTGGTACTCATGTCTCATGGCATCCTAGAGGGAATCTGCGGAACTGCGCATAAAAAAG
AAAAAACCGGATGTGCTGTTTATGACACCATCTCCAGATATTCAACAACCGCAACTGCCTCAGTCTAA
AGGACAAAACCCAAGTCACTATTGTCCAGGCCTGCAGAGGTGAAAAACATGGGGAATCTGGGTCAGAGA
CTCTCCAGCATCCTTGGCACTCATCTTTCACAGTCATCTGAGAACCCTGGAGGCAGATTCTGTTTCAAG
ATCCACGAGGAGAAGGACTTCATTGCTTCTGTTCTTCAACACCACATAACGTGTCTGGAGAGACCGCA
CAAGGGGCTCCATCTTACGGAACCTCATCACATGCTTCCAGAAATATTCTTGTGCTGCCACCTAAT
GGAAATATTTGGAAGGTACAGAAATCATTGAAGTCCACAGGCTAAAGCCAGATGCCACCATAGAA
CGAGCAACCTTGACAAGAGATTCTACCTTTCTGGCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229221 representing NM_004347
 Red=Cloning site Green=Tags(s)

MAEDSGKKRRKNFEAMFKGILQSGLDNFVINHMLKNNVAGQTSIQTLVPNTDQKSTSVKKNHKKKTVK
 MLEYLKGDVHLHGVSFNYLAKHDVLTLEEEKKKYDYDTKIEDKALILVDSLKRNVAHQMFQTLLNMDQKI
 TSVKPLLQIEAGPPESAESTNILKLCPREEFRLRCKKNHDEIYPIKKREDRRRLALIIICNTKFDHLPARN
 GAHYDIVGMKRLQLQGLGYTVVDEKNLTARDMESVLRFAARPEHKSSDSTFLVLMESHGILEGICGTAHKK
 KKPVDVLLYDTIFQIFNRRNCLSLKDKPKVIVQACRGEKHGELWVRDSPAALALISSQSENLEADSVCK
 IHEEKDFIAFCSSTPHNVSWDRDRGRSIFITELITCFQKYSCCCHLMEIFRKVQKSFVQPQAKAQMPTIE
 RATLTRDFYLFPGN

TRTRPLE – GFP Tag – V

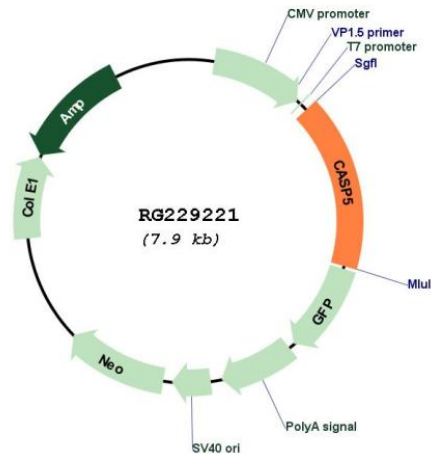
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_004347

ORF Size:	1302 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:	<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_004347.5
RefSeq Size:	1449 bp
RefSeq ORF:	1305 bp
Locus ID:	838
UniProt ID:	P51878
Cytogenetics:	11q22.3
Protein Families:	Druggable Genome, Protease
Protein Pathways:	NOD-like receptor signaling pathway
Gene Summary:	<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. Overexpression of the active form of this enzyme induces apoptosis in fibroblasts. Max, a central component of the Myc/Max/Mad transcription regulation network important for cell growth, differentiation, and apoptosis, is cleaved by this protein; this process requires Fas-mediated dephosphorylation of Max. The expression of this gene is regulated by interferon-gamma and lipopolysaccharide. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Aug 2010]</p>