

Product datasheet for **RG226582**

Caspase 5 (CASP5) (NM_001136112) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Caspase 5 (CASP5) (NM_001136112) 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) |



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ORF Nucleotide Sequence:

>RG226582 representing NM_001136112
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCTGTGCCAGAGTTGAAGGAGTCTTTATATTTCTGATAGAAGACAGTGGCAAAAAAAAAAGGC
 GTAAGAATTTTGAAGCTATGTTCAAAGGTATCCTTCAGAGTGGATTGGATAAATTCTGATGATAAACCACAT
 GCTAAAGAACAACGTGGCTGGACAAACATCTATCCAGACCCTAGTACCTAATACGGATCAAAAGTCGACC
 AGTGTAAGAAAAAGACAACCAAAAAAAAAAACAGTTAAGATGTTGGAATACCTGGCAAAGATGTTCTTC
 ATGGTGTTTTTAATTATTTGGCAAAACACGATGTTCTGACATTGAAGGAAGAGGAAAAAGAAAAATTA
 TGATACCAAAATTGAAGACAAGGCCCTGATCTTGGTAGACTCTTTCGAAAAGAATCGCGTGGCTCATCAA
 ATGTTTACCAAACTTCTCAATATGGACAAAAGATCACCAGTGTAAAACCTTCTGCAAAATCGAGG
 CTGGACCCTGAGTCAGCAGAATCTACAATATACTCAAACCTTGTCTCGTGAAGAATTCCTGAGACT
 GTGTAAGAAAAATCATGATGAGATCTATCCAATAAAAAAGAGAGAGGACCGCAGACGCTGGCTCTCATC
 ATATGCAATACAAAGTTTGTATCCTGCCTGCAAGGAATGGGGCTCACTATGACATCGTGGGGATGAAAA
 GGCTGCTTCAAGGCCTGGGCTACACTGTGGTTGACGAAAAGAATCTCACAGCCAGGGATATGGAGTCAGT
 GCTGAGGGCATTGCTGCCAGACCAGAGCACAAGTCTCTGACAGCACGTTCTTGGTACTCATGTCTCAT
 GGCATCTAGAGGGAATCTGCGGAATGCGCATAAAAAAGAAAAACCGGATGTGCTGCTTTATGACACCA
 TCTTCCAGATATCAACAACCGCAACTGCCTCAGTCTAAAGGACAACCAAGGTCATCATTGTCCAGGC
 CTGCAGAGGTGAAAAACATGGGGAATCTGGGTCAGAGACTCTCCAGCATCCTTGGCACTCATCTTCA
 CAGTCATCTGAGAACCTGGAGGCAGATTCTGTTTGAAGATCCACGAGGAGAAGGACTTCATTGCTTTCT
 GTTCTTCAACACCACATAACGTGCTCTGGAGAGACCGCACAAGGGGCTCCATCTTACGGAACCTCAT
 CACATGCTTCCAGAAATATTCTTGTCTGCCACCTAATGGAAATATTTGGAAGGTACAGAAATCATT
 GAAGTTCCACAGGCTAAAGCCCAGATGCCACCATAGAACGAGCAACCTTGACAAGAGATTTCTACCTCT
 TTCCTGGCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226582 representing NM_001136112
 Red=Cloning site Green=Tags(s)

MAAVPRVEGVFIFLIEDSGKKRRRNFEAMFKGILQSGLDNFVINHMLKNNVAGQTSIQTLVPNTDQKST
 SVKKNHKKKTKMLEYLGKDV LHGVFNYLAKHDVLTLEEEKKKYYDTKIEDKALILVDSL RKNRVAHQ
 MFTQTLNMDQKITSVKPLLQIEAGPPESAESTNILKLCPREEFLRLCKKNHDEIYPIKKREDRRLALI
 ICNTKFDHLPARNGAHYDIVGMKRLQLGLGYTVVDEKNLTARDMESVLRFAARPEHKSSDSTFLVLSH
 GILEGICGTAHKKKPDVLLYDTIFQIFNNRNL SLKDKPKVIIVQACRGEKHGELWVRDSPASLALISS
 QSENLEADSVCKIHEEKDFIAFCSSPHNVSWRDRTRGSIFITELITCFQKYSCCCHLMEIFRKVQKSF
 EVPQAKAQMP TIERATLTRDFYLFPGN

TRTRPLE - GFP Tag - V

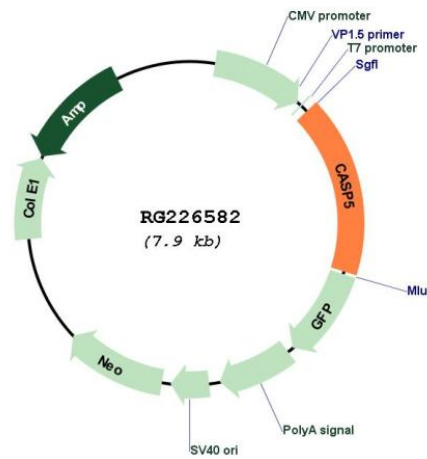
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001136112

ORF Size: 1341 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.

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| 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_001136112.2 |
| RefSeq Size: | 1488 bp |
| RefSeq ORF: | 1344 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> |