

Product datasheet for RC231175

Caspase 12 (CASP12) (NM_001191016) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 12 (CASP12) (NM_001191016) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caspase 12
Synonyms:	CASP-12; CASP12P1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>>RC231175 representing NM_001191016</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p>

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTGATGAGAAACCATCCAACGGTGTCTGGTCCACATGGTGAAGTTGCTGATCAAGACCTTTCTAG
 ATGGCATTTTTGATGATTTGATGGAAAATAATGTATTAATACAGATGAGATACACCTTATAGGAAAATG
 TCTAAAGTTTGGTGAGCAATGCTGAAAACCTGGTTGATGATATCACTGAGACAGCTCAAAGTGCAGGC
 AAAATATTTAGGGAACACCTGTGGAATTCAAAAAACAGCTGAGTTCAGATATATCCAGTGATGGAGAAA
 GAGAGGCGAACATGCCTGGCCTCAACATCCGCAACAAAGAATTCAACTATCTTCATAATCGAAATGGTTC
 TGAACCTTGACCTTTGGGGATGCGAGATCTACTTGAAAACCTTGGATACTCAGTGGTTATAAAAGAGAAT
 CTCACAGCTCAGGAAATGAAACAGCACTAAGGCAGTTTGTCTGCTCAGGAGCAGCAGTCTCAGACA
 GCACATTCCTGGTGTATGTACATAGCATCTGAATGGAATCTGTGGGACCAAGCACTGGGATCAAGA
 GCCAGATGTTCTTCACGATGACACCATCTTTGAAATTTCAACAACCGTAACTGCCAGAGTCTGAAAGAC
 AAACCAAGGTGATCATCATGCAAGCCTGCCGAGGCAATGGTGTGGGATTGTTTGGTTCACCACTGACA
 GTGAAAAGCCGGTGCAGATACTCATGGTCGGCTCTTGAAGGTAACATCTGTAATGATGCTGTTACAAA
 GGCTCATGTGAAAAGGACTTCATTGCTTTCAAATCTTCCACACCACATAATGTTCTTGGAGACATGAA
 ACAATGGCTCTGTCTTCATTTCCAAATATCTACTCTCAGAGAGTATTCTTGAGTCATCATCTAG
 AGGAAATTTTCAAAGGTTCAACATTCATTTGAGACCCCAAATATACTGACCCAGCTGCCACCATTTGA
 AAGACTATCCATGACACGATATTCTATCTCTTCTGGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC231175 representing NM_001191016
 Red=Cloning site Green=Tags(s)

MADEKPSNGVLVHMKLLIKTFDGLFDDLMENNVLTDEIHLIGKCLKFVVSNAENLVDDITETAQTAG
 KIFREHLWNSKKQLSSDISDGEREANMPGLNIRNKEFNHNRNGSELDLLGMRDLENLGYSVVIKEN
 LTAQEMETALRQFAAHPHQSSDSTFLVFMHSILNGICGTHWDQEPDVLHDDTIFEIFNNRNCQSLKD
 KPKVIIMQACRGNGAGIVWFTTDSGKAGADTHGRLLQGNICNDAVTKAHVEKDFIAFKSSTPHNVSWRHE
 TNGSVFISQIIYFREYSWSHLEEIFQKVQHSFETPNILTQLPTIERLSMTRYFYLFPGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1276_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001191016

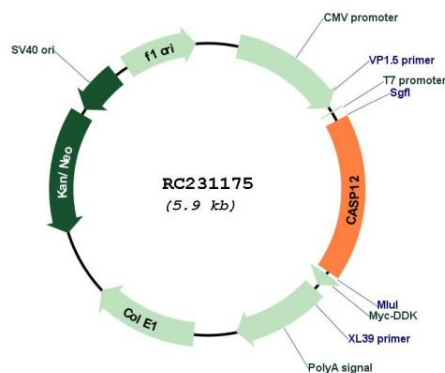
ORF Size: 1023 bp

OTI Disclaimer: 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.

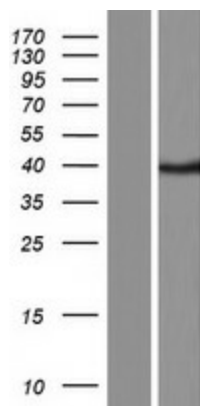
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001191016.1, NP_001177945.1</u>
RefSeq ORF:	1026 bp
Locus ID:	100506742
UniProt ID:	<u>Q6UXS9</u>
Cytogenetics:	11q22.3
MW:	39.4 kDa
Gene Summary:	<p>Caspases are cysteine proteases that cleave C-terminal aspartic acid residues on their substrate molecules. This gene is most highly related to members of the ICE subfamily of caspases that process inflammatory cytokines. In rodents, the homolog of this gene mediates apoptosis in response to endoplasmic reticulum stress. However, in humans this gene contains a polymorphism for the presence or absence of a premature stop codon. The majority of human individuals have the premature stop codon and produce a truncated non-functional protein. The read-through codon occurs primarily in individuals of African descent and carriers have endotoxin hypo-responsiveness and an increased susceptibility to severe sepsis. Several alternatively spliced transcript variants have been noted for this gene. [provided by RefSeq, Feb 2011]</p>

Product images:



Circular map for RC231175



Western blot validation of overexpression lysate (Cat# [LY434174]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231175 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).