

## 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:	>RC231175 representing NM_001191016 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGATGAGAAACCATCCAACGGTGTCTGGTCCACATGGTGAAGTTGCTGATCAAGACCTTTCTAG  
ATGGCATTTTTGGATGATTTGATGGAAAATAATGTATTAATACAGATGAGATACACCTTATAGGAAAATG  
TCTAAAGTTTGGTGAGCAATGCTGAAAACCTGGTTGATGATCACTGAGACAGCTCAAAGTGCAGGC  
AAAATATTTAGGGAACACCTGTGGAATTCAAAAACAGCTGAGTTCAGATATATCCAGTGATGGAGAAA  
GAGAGGCGAACATGCCTGGCCTCAACATCCGCAACAAAGAATTCAACTATCTTCATAATCGAAATGGTTC  
TGAACCTGACCTTTGGGGATGCGAGATCTACTTGAAAACCTTGATACTCAGTGGTTATAAAAGAGAAT  
CTCACAGCTCAGGAAATGGAAACAGCACTAAGGCAGTTTGGTCTCACCCAGAGCACCAGTCCCTCAGACA  
GCACATTCCTGGTGTATGTCACATAGCATCCTGAATGGAATCTGTGGGACCAAGCACTGGGATCAAGA  
GCCAGATGTTCTTCACGATGACACCATCTTTGAAATTTCAACAACCGTAACTGCCAGAGTCTGAAAGAC  
AAACCAAGGTCAATCATGCAAGCCTGCCGAGGCAATGGTGTGGGATGTTTGGTTCACCACTGACA  
GTGGAAAAGCCGGTGCAGATACTCATGGTCCGCTCTTGAAGGTAACATCTGTAATGATGCTGTTACAAA  
GGCTCATGTGGAAAAGGACTTCATTGCTTTCAAATCTTCCACACCACATAATGTTTCTGGAGACATGAA  
ACAAATGGCTCTGTCTTCATTTCCAAATATCTACTCTCAGAGAGTATTCTTGAGTGCATCATCTAG  
AGGAAATTTTCAAAGGTTCAACATTTGAGACCCCAAATATACTGACCCAGCTGCCACCATTGA  
AAGACTATCCATGACACGATATTCTATCTCTTTCTGGGAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC231175 representing NM\_001191016  
Red=Cloning site Green=Tags(s)

MADEKPSNGVLVHMKLLIKTFLDGIFDDL MENNVLNTDEIHLIGKCLKFVVSNAENLVDDITETAQTAG  
 KIFREHLWNSKKQLSSDISSDGEREANMPGLNIRNKEFNYLHNRNGSELDLLGMRDLEENLGYSVVIKEN  
 LTAQEMETALRQFAAHPHQSSDSTFLVFMHSILNGICGTHWDQEPDVLHDDTIFEIFNNRNCQSLKD  
 KPKVIIIMQACRGNAGIVWFTTDSGKAGADTHGRLLQGNICNDAVTKAHVEKDFIAFKSSTPHNVSWRHE  
 TNGSVFISQIIYYFREYSWSHLEEIFQKVQHSFETPNILTQLPTIERLSMTRYFYLFPGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1276\\_e11.zip](https://cdn.origene.com/chromatograms/ja1276_e11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001191016

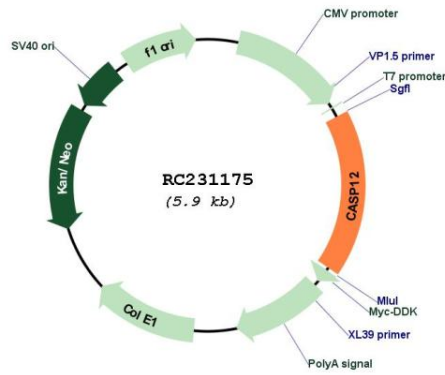
**ORF Size:** 1023 bp

**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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

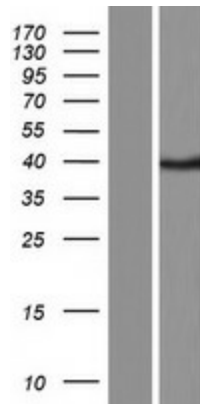
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<u><a href="#">NM_001191016.1</a></u> , <u><a href="#">NP_001177945.1</a></u>
<b>RefSeq ORF:</b>	1026 bp
<b>Locus ID:</b>	100506742
<b>UniProt ID:</b>	<u><a href="#">Q6UXS9</a></u>
<b>Cytogenetics:</b>	11q22.3
<b>MW:</b>	39.4 kDa
<b>Gene Summary:</b>	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]

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]).