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Product datasheet for RC227593

Caspase 5 (CASP5) (NM_001136109) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 5 (CASP5) (NM_001136109) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caspase 5
Synonyms:	ICE(rel)III; ICEREL-III; ICH-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC227593 representing NM_001136109 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

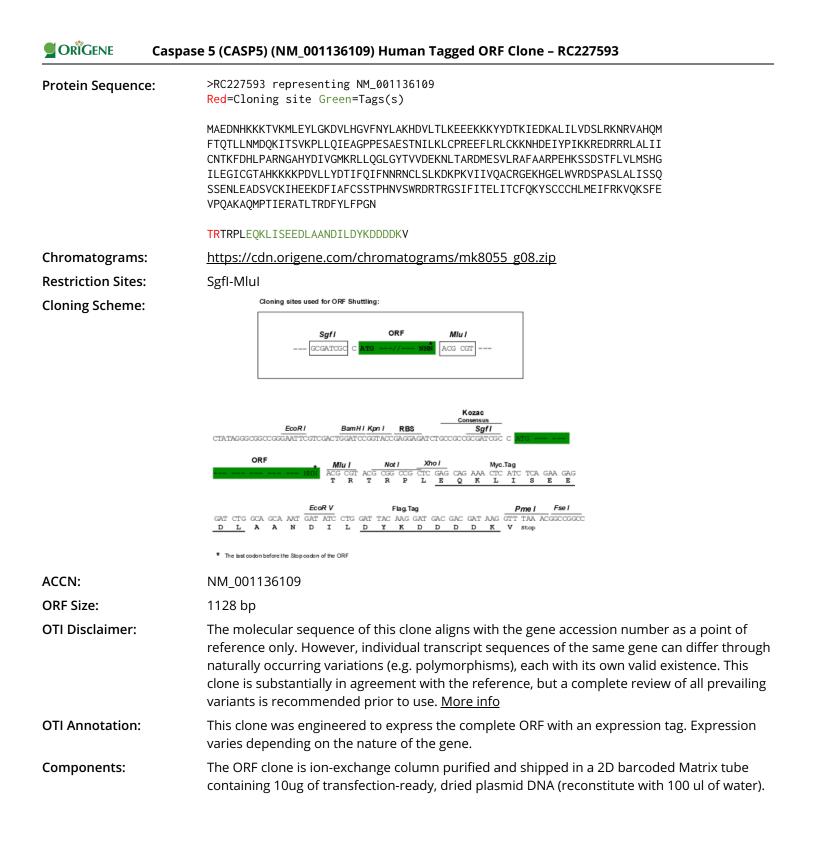
ATGGCTGAAGACAACCACAAAAAAAAAAACAGTTAAGATGTTGGAATACCTGGGCAAAGATGTTCTTCATG TACCAAAATTGAAGACAAGGCCCTGATCTTGGTAGACTCTTTGCGAAAGAATCGCGTGGCTCATCAAATG TTTACCCAAACACTTCTCAATATGGACCAAAAGATCACCAGTGTAAAACCTCTTCTGCAAATCGAGGCTG GACCACCTGAGTCAGCAGAATCTACAAATATACTCAAACTTTGTCCTCGTGAAGAATTCCTGAGACTGTG TGCAATACAAAGTTTGATCACCTGCCTGCAAGGAATGGGGCTCACTATGACATCGTGGGGATGAAAAGGC TGCTTCAAGGCCTGGGCTACACTGTGGTTGACGAAAAGAATCTCACAGCCAGGGATATGGAGTCAGTGCT GAGGGCATTTGCTGCCAGACCAGAGCACAAGTCCTCTGACAGCACGTTCTTGGTACTCATGTCTCATGGC ATCCTAGAGGGAATCTGCGGAACTGCGCATAAAAAGAAAAACCGGATGTGCTGCTTTATGACACCATCT TCCAGATATTCAACAACCGCAACTGCCTCAGTCTAAAGGACAAACCCAAGGTCATCATTGTCCAGGCCTG CAGAGGTGAAAAACATGGGGAACTCTGGGTCAGAGACTCTCCAGCATCCTTGGCACTCATCTCTCACAG TCATCTGAGAACCTGGAGGCAGATTCTGTTTGCAAGATCCACGAGGAGAAGGACTTCATTGCTTTCTGTT CTTCAACACCACATAACGTGTCCTGGAGAGACCGCACAAGGGGCTCCATCTTCATTACGGAACTCATCAC ATGCTTCCAGAAATATTCTTGCTGCTGCCACCTAATGGAAATATTTCGGAAGGTACAGAAATCATTTGAA GTTCCACAGGCTAAAGCCCAGATGCCCACCATAGAACGAGCAACCTTGACAAGAGATTTCTACCTCTTC CTGGCAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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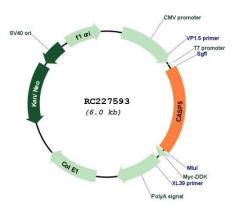
Caspase 5 (CASP5) (NM_001136109) Human Tagged ORF Clone – RC227593

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001136109.2</u>
RefSeq ORF:	1131 bp
Locus ID:	838
UniProt ID:	<u>P51878</u>
Cytogenetics:	11q22.3
Protein Families:	Druggable Genome, Protease
Protein Pathways:	NOD-like receptor signaling pathway
MW:	43.1 kDa
Gene Summary:	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

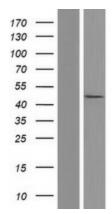
identified for this gene. [provided by RefSeq, Aug 2010]

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Product images:



Circular map for RC227593



Western blot validation of overexpression lysate (Cat# [LY427803]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227593 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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