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Product datasheet for RC210146

Caspase 14 (CASP14) (NM_012114) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caspase 14 (CASP14) (NM_012114) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caspase 14
Synonyms:	ARCI12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210146 representing NM_012114
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCAATCCGCGGTCTTTGGAAGAGGAGAAATATGATATGTCAGGTGCCCGCCTGGCCCTAATACTGT
GTGTCACCAAAGCCCGGGAAGGTTCCGAAGAAGACCTGGATGCTCTGGAACACATGTTTCGGCAGCTGAG
ATTCGAAAGCACCATGAAAAGAGACCCCACTGCCGAGCAATTCCAGGAAGAGCTGGAAAAATTCCAGCAG
GCCATCGATTCCCGGGAAGATCCCGTCAGTTGTGCCTTCGTGGTACTCATGGCTCACGGGAGGGAAGGCT
TCCTCAAGGGAGAAGATGGGGAGATGGTCAAGCTGGAGAATCTCTTCGAGGCCCTGAACAACAAGAACTG
CCAGGCCCTGCGAGCTAAGCCCAAGGTGTACATCATACAGGCCTGTCGAGGAGAACAAAGGGACCCCGGT
GAAACAGTAGGTGGAGATGAGATTGTGATGGTCATCAAAGACAGCCCACAAACCATCCCAACATACACAG
ATGCCTTGCACGTTTATTCCACGGTAGAGGGATACATCGCCTACCGACATGATCAGAAAGGCTCATGCTT
TATCCAGACCCTGGTGGATGTGTTCACGAAGAGGAAAGGACATATCTTGGAACTTCTGACAGAGGTGACC
CGGCGGATGGCAGAAGCAGAGCTGGTTCAAGAAGGAAAAGCAAGGAAAACGAACCCTGAAATCCAAAGCA
CCCTCCGGAAACGGCTGTATCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC210146 representing NM_012114
Red=Cloning site Green=Tags(s)

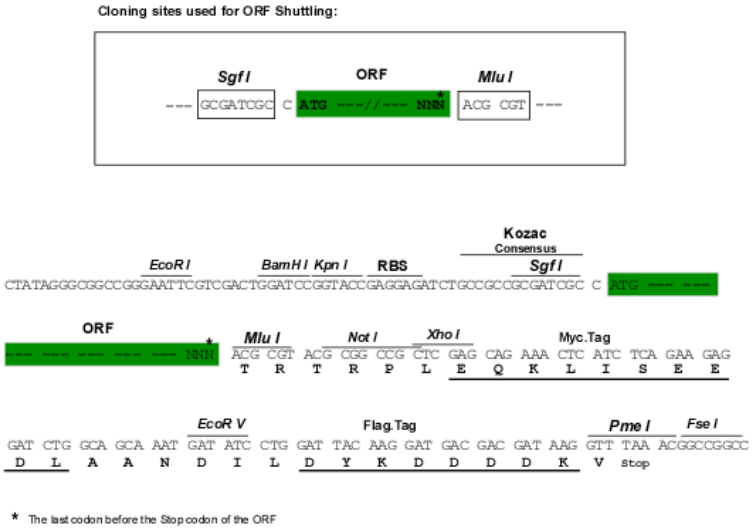
MSNPRSLEEEKYDMSGARLALILCVTKAREGSEEDLDALEHMFRQLRFESTMKRDPTAEQFQEELEKFQQ
AIDSREDPVSCAFVVLMAHGREGFLKGEDGEMVKLENLFEALNNKNCQALRAKPKVYIIQACRGEQRDPG
ETVGGDEIVMVIKDSPQTIPTYTDALHVYSTVEGYIAYRHDQKGSCFIQTLVDVFTKRKGHILELLTEVT
RRMAEAELVQEGKARKTNPEIQSTLRKRLYLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1466_e12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012114

ORF Size: 726 bp

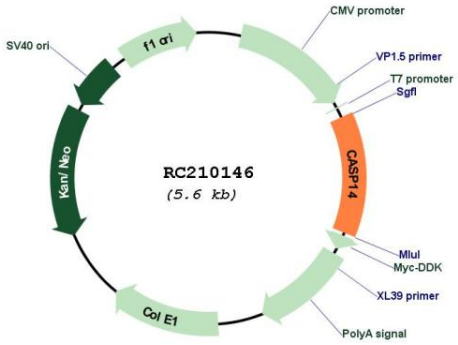
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

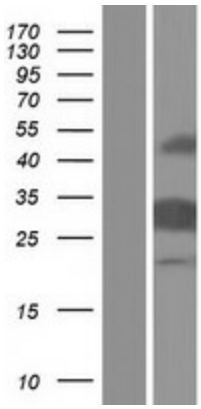
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	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:	NM_012114.3
RefSeq Size:	777 bp
RefSeq ORF:	729 bp
Locus ID:	23581
UniProt ID:	P31944
Cytogenetics:	19p13.12
Protein Families:	Druggable Genome
MW:	27.5 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. This caspase has been shown to be processed and activated by caspase 8 and caspase 10 in vitro, and by anti-Fas agonist antibody or TNF-related apoptosis inducing ligand in vivo. The expression and processing of this caspase may be involved in keratinocyte terminal differentiation, which is important for the formation of the skin barrier. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210146



Western blot validation of overexpression lysate (Cat# [LY415967]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210146 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).