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Product datasheet for RC222740

CARD11 (NM_032415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD11 (NM_032415) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CARD11
Synonyms:	BENTA; BIMP3; CARMA1; IMD11; IMD11A; PPBL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222740 representing NM_032415.
Blue=ORF Red=Cloning site Green=Tag(s)

GTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCAGTA
CCGAGGAGATCTGCGCCGCGATCGCCGGCGCGCCC
ATGCCAGGAGGAGGGCCAGAGATGGATGACTACATGGAGACGCTGAAGGATGAAGAGGACGCCTTGTGG
GAGAATGTGGAGTGTAACCGGCACATGCTCAGCCGCTATATCAACCCTGCCAAGCTCACGCCCTACCTG
CGTCAGTGTAAGGTCATTGATGAGCAGGATGAAGATGAAGTGCTTAATGCCCCTATGCTGCCATCCAAG
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GAGAGCCTAGAATTTTATTACCCAGAACTGTACAAACTGGTGACTGGGAAAGAGCCCACTCGGAGATTC
TCCACCATTGTGGTGGAGGAAGGCCACGAGGGCCTCACGCACTTCCTGATGAACGAGGTCATCAAGCTG
CAGCAGCAGATGAAGGCCAAGGACCTGCAACGCTGCGAGCTGCTGGCCAGGTTGCGGCAGCTGGAGGAT
GAGAAGAAGCAGATGACGCTGACGCGCGTGGAGCTGCTAACCTTCCAGGAGCGGTACTACAAGATGAAG
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CCTGAAGACAGCAAGTACTTCCTGCCCTACCATCCGCCCCAGCGCAGGATGAACCTGAAGGGCATCCAG

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CTGCAGAGAGCCAAATCCCCCATCAGCCTGAAGCGAACATCAGATTTTCAAGCCAAGGGGCACGAGGAA
GAAGGCACGGATGCCAGCCCTAGCTCCTGCGGATCTCTGCCCATCACCAACTCCTTCACCAAGATGCAG
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ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>Peptide sequence encoded by RC222740
Blue=ORF Red=Cloning site Green=Tag(s)

MPGGGPEMDDYMETLKDEEDALWENVECNRHMLSRYINPAKLTPYLRQCKVIDEQDEDEVLNAPMLPSK
INRAGRLLDILHTKGQRGYVVFLESLEFYYPELYKLVTGKEPTRRFSTIVVEEGHEGLTHFLMNEVIKL
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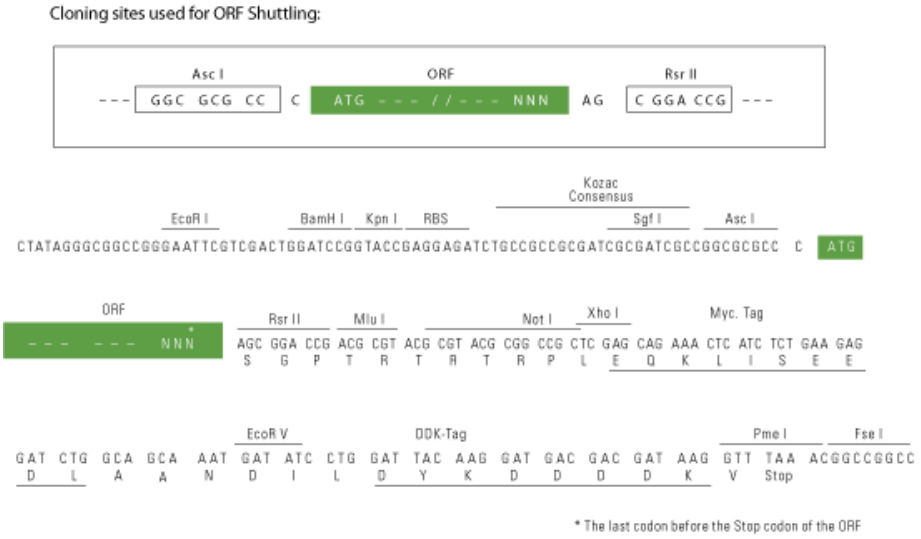
RAFYCERRRPVLFTPTVLAKTLVQRLLNSGGAMEFTICKSDIVTRDEFLRRQKTETIIYSREKNPNAFE
CIAPANIEAVAAKNKHCLLEAGIGCTRDLIKSNIYPIVLFIRVCEKNIKRFRKLLPRPETEEEFLRVCR
LKEKELEALPCLYATVEPDMWGSVEELLRVVKDKIGEEQRKTIWVDEDQL
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC222740 also available, TP322740

Chromatograms: https://cdn.origene.com/chromatograms/mg2526_b04.zip

Restriction Sites: AscI-RsrII

Cloning Scheme:



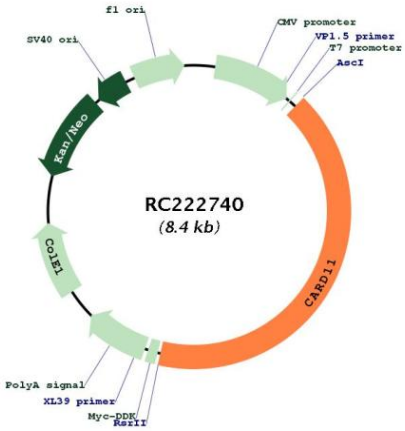
ACCN: NM_032415

ORF Size: 3462 bp

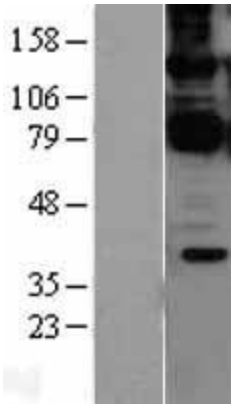
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	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 Size:	4372 bp
RefSeq ORF:	3465 bp
Locus ID:	84433
UniProt ID:	Q9BXL7
Cytogenetics:	7p22.2
Protein Families:	Druggable Genome
Protein Pathways:	B cell receptor signaling pathway, T cell receptor signaling pathway
MW:	133.3 kDa

Gene Summary: The protein encoded by this gene belongs to the membrane-associated guanylate kinase (MAGUK) family, a class of proteins that functions as molecular scaffolds for the assembly of multiprotein complexes at specialized regions of the plasma membrane. This protein is also a member of the CARD protein family, which is defined by carrying a characteristic caspase-associated recruitment domain (CARD). This protein has a domain structure similar to that of CARD14 protein. The CARD domains of both proteins have been shown to specifically interact with BCL10, a protein known to function as a positive regulator of cell apoptosis and NF-kappaB activation. When expressed in cells, this protein activated NF-kappaB and induced the phosphorylation of BCL10. [provided by RefSeq, Jul 2008]

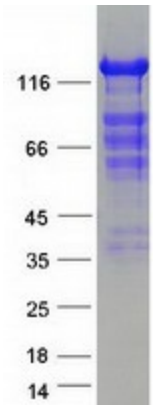
Product images:



Circular map for RC222740



Western blot validation of overexpression lysate (Cat# [LY403162]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222740 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CARD11 protein (Cat# [TP322740]). The protein was produced from HEK293T cells transfected with CARD11 cDNA clone (Cat# RC222740) using MegaTran 2.0 (Cat# [TT210002]).