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Product datasheet for MR211416

Card14 (NM_130886) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Card14 (NM_130886) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Card14
Synonyms:	Bimp2; CARMA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR211416 representing NM_130886
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAACTGTGCCGCATGGATTCCACACTGACTGCTCTGGACGAGGAGATGCTCTGGGATATGCTGG
AGAGTCACCGATGCAGGATTGTGCAGAGCATCTGCCCTAGCCGGCTCACCCCCTACCTGCGCCAGGCCAA
GGTGCTGGGCCAGCTGGACGAGGAGGAGATCCTGCATAGCTCCCGTTTCACCAACAGTGCCATGAGAGTT
GGGCACTTGCTGGATCTGCTAAAGGCCCGAGGGAAGAATGGAGCCATTGCCTTTCTGGAAAGCCTGAAGT
TCCACAACCCTGATGTCTACACCCTGGTCACTGGGCTGCAGTCTGACATTGACTTCAGCACTTTCAGCGG
TCTCATGGAGACATCCAAGCTGACCGAGTGTCTGGCTGGGGCCATCAGCAGCCTGCAGGAGGAGCTGGCC
CAGGAGAAGGCACAGAAGGAGGTTCTGCTCCGGAGATGCCAGCAGCTGAAGGAGCGCCTGGGCTTGGCTG
AGGCTCACGCAGAAGGTCTGCGCCAGCTGGAGGTCGACCACAGCCGCATGAAACGTGAGGTCAGCACCCA
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GATGGACAGCTTCCGCTCCAGCAGCCCCATGCCTCCCAGCCAGCAGTCCCTGTACAAGCGGGTGGCAGAG

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GACTTCCTGGAAGACCCCGAGTCTCTAAGCTTCCCAGAAGTCCTTGAGATGCGCCTTCAAGGGGCTACAG
TGGACGACACAGACACAGACCTGGAGTTTGAGATGATTGACGGAGCAGACCTCTCTCAGACAGAAGACAG
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AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211416 representing NM_130886
Red=Cloning site Green=Tags(s)

MAELCRMDSTLTALDEEMLWDMLESHRCRIVQSICPSRLTPYLRQAKVLGQLDEEEILHSSRFTNSAMRV
GHLLDLLKARGKNGAIAFLESLKFHNPDVYTLVTGLQSDIDFSTFSGLMETSKLTECLAGAISSLQEELA
QEKAQKEVLLRRCQQLKERLGLAEAHAEGLRQLEVDHSRMKREVSTHFHEVLKLKDEMLNLSLHYSNALR
EKELAATRCHSLQEELYLVKQELQRASLVSSCERESRERSLKMASNLEPQGEELNRLKEENEKLRSMTFS
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DFLEDPESLSFPEVLEMRLQGATVDDTDTDLEFEMIDGADLSQTEDSLQGSSRSLNVSESSVPVRRRPAR
KILSQVTVLAFQGDALLEQIGVIGGNLTGIFIHRVTPGSAADEMALRPGTQIMMVDYKPTKPSLRATLEN
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VDKAAVSPLTSSFDQSQWDSGKEEGGPSVCFWSESCFTLAPYTLVHPHRPARPRPVLFVPRLVGRILGKK
LCLLQGFKQCSAEYLSQEEYATWSQRGDIIQEGESIGDHHWITRHAVESLMNMSTHALLDVRLDSVRVLH
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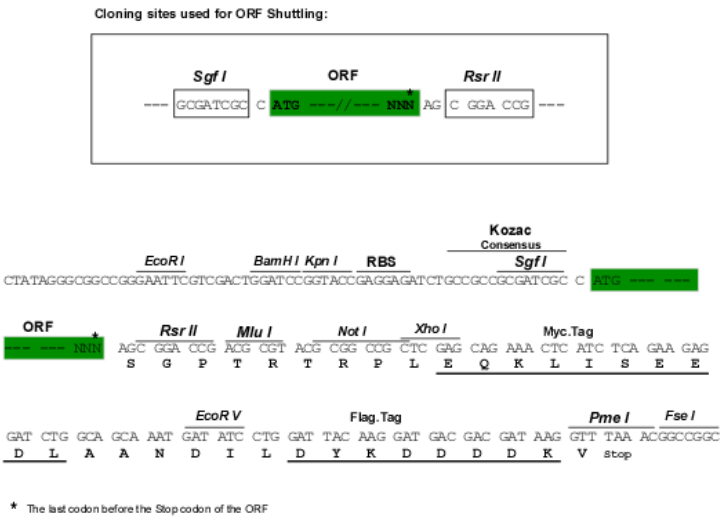
Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_130886

ORF Size: 2997 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.

RefSeq: NM_130886.4

RefSeq Size: 3958 bp

RefSeq ORF: 3000 bp

Locus ID: 170720

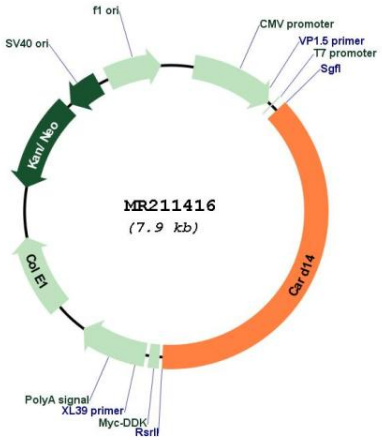
UniProt ID: Q99KF0

Cytogenetics: 11 E2

MW: 113.9 kDa

Gene Summary: Acts as a scaffolding protein that can activate the inflammatory transcription factor NF-kappa-B and p38/JNK MAP kinase signaling pathways. Forms a signaling complex with BCL10 and MALT1, and activates MALT1 proteolytic activity and inflammatory gene expression. MALT1 is indispensable for CARD14-induced activation of NF-kappa-B and p38/JNK MAP kinases. May play a role in signaling mediated by TRAF2, TRAF3 and TRAF6 and protects cells against apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211416