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Product datasheet for RC225844

CARD9 (NM_052814) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD9 (NM_052814) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CARD9
Synonyms:	CANDF2; hCARD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC225844 representing NM_052814
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGACTACGAGAACGATGACGAGTGCTGGAGCGTCCTGGAGGGCTTCCGGGTGACGCTCACCTCGG
TCATCGACCCCTCACGCATCACACCTTACCTGCGGCAGTGCAAGGTCCTGAACCCCGATGATGAGGAGCA
GGTGCTCAGCGACCCCAACCTGGTCATCCGCAAACGGAAAGTGGGTGTGCTCCTGGACATCCTGCAGCGG
ACCGGCCACAAGGGCTACGTGGCCTTCCTCGAGAGCCTGGAGCTCTACTACCCGCAGCTGTACAAGAAGG
TCACAGGCAAGGAGCCGGCCCGCGTCTTCTCCATGATCATCGACGCGTCCGGGGAGTCAGGCCTGACTCA
GCTGCTGATGACTGAGGTCATGAAGCTGCAGAAGAAGGTGCAGGACCTGACCGCGCTGCTGAGCTCCAAA
GATGACTTCATCAAGGAGCTGCGGGTGAAGGACAGCCTGCTGCGCAAGCACCAGGAGCGTGTGCAGAGGC
TCAAGGAGGAGTGCGAGGCCGGCAGCCGCGAGCTCAAGCGCTGCAAGGAGGAGAACTACGACCTGGCCAT
GCGCCTGGCGCACCAGAGTGAGGAGAAGGGCGCCGCGCTCATGCGGAACCGTGACCTGCAGCTGGAGATT
GACCAGCTCAAGCACAGCCTCATGAAGGCCGAGGACGACTGCAAGGTGGAGCGCAAGCACACGCTGAAGC
TCAGGCACGCCATGGAGCAGCGGCCCAGCCAGGAGCTGCTGTGGGAGCTGCAGCAGGAGAAGGCCCTGCT
CCAGGCCCGGGTGCAGGAGCTGGAGGCCTCCGTCCAGGAGGGGAAGCTGGACAGGAGCAGCCCCTACATC
CAGGTACTGGAGGAGGACTGGCGGCAGGCGCTGCGGGACCACCAGGAGCAGGCCAACACCATCTTCTCCC
TGCGCAAGGACCTCCGCCAGGGCGAGGCCCGACGCCTCCGGTGCATGGAGGAGAAGGAGATGTTCGAGCT
GCAGTGCCTGGCACTACGTAAGGACTCCAAGATGTACAAGGACCGCATCGAGGCCATCCTGCTGCAGATG
GAGGAGGTCGCCATTGAGCGGGACCAGGCCATAGCCACGCGGGAGGAGCTGCACGCACAGCACGCCCGGG
GCCTGCAGGAGAAGGACGCGCTGCGCAAGCAGGTGCGGGAGCTGGGCGAGAAGGCGGATGAGCTGCAGCT
GCAGGTGTTCCAGTGTGAGGCGCAGCTACTGGCCGTGGAGGGCAGGCTCAGGCGGCAGCAGCTGGAGACG
CTCGTCCTGAGCTCCGACCTGGAAGATGGCTCACCCAGGAGGTCCCAGGAGCTCTCACTCCCCCAGGACC
TGGAGGACACCCAGCTCTCAGACAAAGGCTGCCTTGCCGGCGGGGGGAGCCCGAAACAGCCCTTTGCAGC
TCTGCACCAGGAGCAGGTTTTGCGGAACCCCCATGACGCAGGCCCAGCCGGACTGCCGGGCATTGGGGCC
GTTTGT

ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225844 representing NM_052814
Red=Cloning site Green=Tags(s)

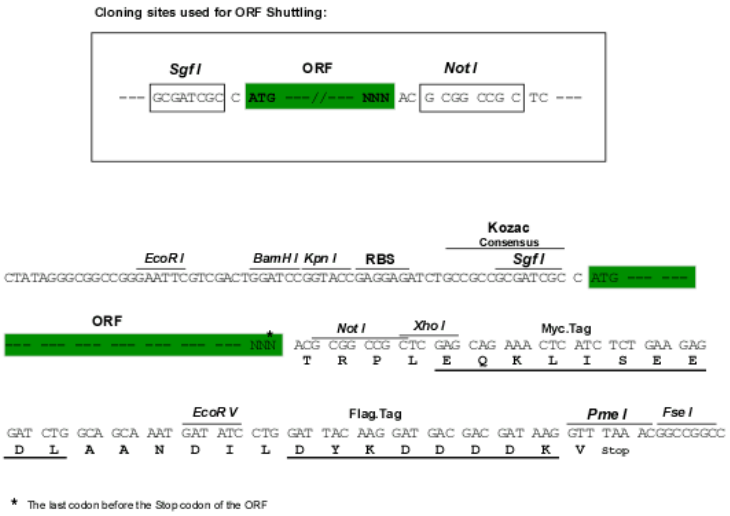
MSDYENDDECWSVLEGFRVTLTSVIDPSRITPYLRQCKVLNPDDEEQVLSDPNLVIRKRKVGVLLDILQR
TGHKGYVAFLESLELYYPQLYKKVTGKEPARVFSMIIDASGESGLTQLLMTEVMKLQKKVQDLTALLSSK
DDFIKELRVKDSLLRKHQERVQRLKEECEAGSRELKRCKEENYDLAMRLAHQSEEKGAALMRNRDLQLEI
DQLKHSLMKAEDDCKVERKHTLKLRHAMEQRPSQELLWELQQEKALLQARVQELEASVQEGKLDRSSPYI
QVLEEDWRQALRDHQEQANTIFSLRKDLRQGEARRLRCMEEKEMFELQCLALRKDSKMYKDRIEAILLQM
EEVAIERDQAIATREELHAQHARGLQEKDALRKQVRELGEKADELQLQVFQCEAQLLAVEGRLRRQQLET
LVLSSDLEDGSPRRSQELSLPQDLEDTQLSDKGCLAGGGSPKQPFAALHQEQVLRNPHDAGPAGLPGIGA
VC

TRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3749_g05.zip

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN: NM_052814

ORF Size: 1476 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.

RefSeq: NM_052814.4

RefSeq ORF: 1479 bp

Locus ID: 64170

UniProt ID: Q9H257

Cytogenetics: 9q34.3

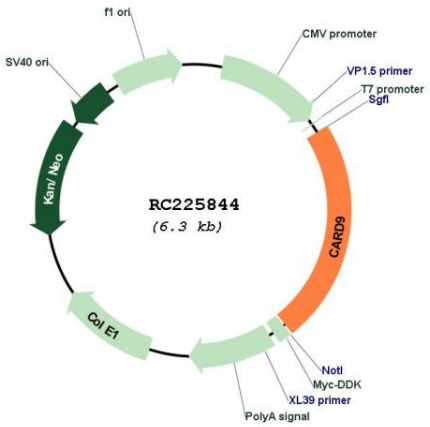
Protein Families: Druggable Genome

Protein Pathways: NOD-like receptor signaling pathway

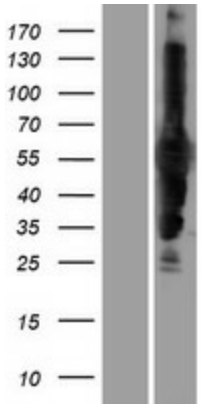
MW: 56.5 kDa

Gene Summary: The protein encoded by this gene is a member of the CARD protein family, which is defined by the presence of a characteristic caspase-associated recruitment domain (CARD). CARD is a protein interaction domain known to participate in activation or suppression of CARD containing members of the caspase family, and thus plays an important regulatory role in cell apoptosis. This protein was identified by its selective association with the CARD domain of BCL10, a postive regulator of apoptosis and NF-kappaB activation, and is thought to function as a molecular scaffold for the assembly of a BCL10 signaling complex that activates NF-kappaB. Several alternatively spliced transcript variants have been observed, but their full-length nature is not clearly defined. [provided by RefSeq, Jul 2008]

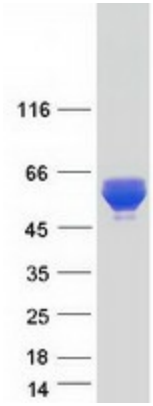
Product images:



Circular map for RC225844



Western blot validation of overexpression lysate (Cat# [LY429892]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225844 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CARD9 protein (Cat# [TP325844]). The protein was produced from HEK293T cells transfected with CARD9 cDNA clone (Cat# RC225844) using MegaTran 2.0 (Cat# [TT210002]).