

Product datasheet for **SC325131**

CARD9 (NM_052814) Human Untagged Clone

Product data:

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



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Fully Sequenced ORF: >SC325131 representing NM_052814.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGGACTACGAGAACGATGACGAGTCTGGAGCGTCTGGAGGGCTCCGGGTGACGCTCACCTCG
GTACATCGACCCCTCACGCATCACACCTTACCTGCGGCAGTGAAGTCTGAACCCCGATGATGAGGAG
CAGGTGCTCAGCGACCCCAACCTGGTCACTCCGCAAACGAAAGTGGTGTGCTCCTGGACATCCTGCAG
CGGACCGGCCACAAGGGCTACGTGGCCTTCTCGAGAGCCTGGAGCTCTACTACCCGAGCTGTACAAG
AAGGTCACAGGCAAGGAGCCGGCCCGCTTCTCCATGATCATCGACGCGTCCGGGGAGTCAGGCTG
ACTCAGCTGCTGATGACTGAGGTCATGAAGCTGCAGAAGAAGTGCAGGACCTGACCCGCGTCTGAGC
TCCAAAGATGACTTCATCAAGGAGCTGCGGGTGAAGGACAGCCTGCTGCGCAAGCACCAGGAGCGTGTG
CAGAGGCTCAAGGAGGAGTGCAGGCGCGCAGCCGCGAGCTCAAGCGCTGCAAGGAGGAGAACTACGAC
CTGGCCATGCGCCTGGCGCACCAGAGTGAAGGAGGAGGCGCCGCGCTCATGCGGAACCGTGACCTGCAG
CTGGAGATTGACCAGCTCAAGCACAGCCTCATGAAGGCCGAGGACGACTGCAAGTGGAGCGCAAGCAC
ACGCTGAAGCTCAGGCACGCCATGGAGCAGCGGCCAGCCAGGAGCTGCTGTGGGAGCTGCAGCAGGAG
AAGGCCCTGCTCCAGGCCGGGTGCAGGAGCTGGAGGCCCTCCGTCCAGGAGGGGAAGCTGGACAGGAGC
AGCCCCTACATCCAGGTAAGTGGAGGAGGACTGGCGGCAGGCGCTGCGGGACCACCAGGAGCAGGCCAAC
ACCATCTTCTCCCTGCGCAAGGACTCCGCCAGGGCGAGGCCCGACGCCTCCGGTGCATGGAGGAGAAG
GAGATGTTTCGAGCTGCAGTGCCTGGCACTACGTAAGGACTCCAAGATGTACAAGGACCGCATCGAGGCC
ATCCTGCTGCAGATGGAGGAGTGCATTCAGCGGGACCAGGCCATAGCCACGCGGGAGGAGCTGCAC
GCACAGCACGCCCGGGGCTGCAGGAGAAGGACGCGCTGCGCAAGCAGGTGCGGGAGCTGGGCGAGAAG
CGGGATGAGCTGCAGCTGCAGGTGTTCCAGTGTGAGGCGCAGCTACTGGCCGTGGAGGAGTCCAGGAG
CGGCAGCAGCTGGAGACGCTCGTCTGAGCTCCGACCTGGAAGATGGCTACCCAGGAGGTCCAGGAG
CTCTACTCCCCAGGACCTGGAGGACCCAGCTCTCAGACAAAGGCTGCCTTGCAGCGGGGGGAGC
CCGAAACAGCCCTTTCAGCTCTGCACCAGGAGCAGGTTTTGCGGAACCCCATGACGCAGGCCAGCC
GGACTGCCGGGCATTGGGGCCGTTGTTAA
ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAG
GATGACGACGATAAGGTTTAAACGGCCGGCCGCGGT
  
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Restriction Sites: SgfI-NotI

ACCN: NM_052814

Insert Size: 1479 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_052814.3](#)

RefSeq Size: 1852 bp

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: 56.7 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 positive 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]
Transcript Variant: This variant (2) uses alternate splice sites in the 3' coding region, compared to variant 1, that results in a frameshift. It encodes isoform 2 which has a shorter and distinct C-terminus compared to isoform 1.