

Product datasheet for **SC110604**

CARD9 (NM_052813) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD9 (NM_052813) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARD9
Synonyms:	CANDF2; hCARD9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_052813 edited
GAATTCGGCACGAGCCGGCGTGTCTCCTCCCTCCCTGCAGCCCCGGGCAGCATCTCCCAGA
GGCTCCGCGGCCAGGCTCCTGGTGTGTCTGCAGTGCAGGTGGCTCCTGGAAGACCCTCA
GCCTGCCTGTGAGGCCATGTCCGACTACGAGAACGATGACGAGTGTGGAACTGCTGG
AGGGCTTCGGGTGACGCTCACCTCGGTATCGACCCCTACGCATCACACCTTACCTGC
GGCAGTGC AAGTCTCTGAACCTGATGATGAGGAGCAGGTGCTCAGCGACCCCAACCTGG
TCATCCGCAACGGAAAGTGGGTGTGCTCCTGGACATCCTGCAGCGGACCGGCCACAAGG
GCTACGTGGCCTTCTCGAGAGCCTGGAGCTCTACTACCCGCAGCTGTACAAGAAGGTCA
CAGGCAAGGAGCCGGCCGCGTCTTCTCCATGATCATCGACGCGTCCGGGGAGTCAGGCC
TGACTCAGCTGTGATGACTGAGGTGATGAAGTGCAGAAGAAGGTGCAGGACCTGACCG
CGCTGCTGAGCTCCAAGATGACTTCATCAAGGAGCTGCGGGTGAAGGACAGCCTGCTGC
GCAAGCACCAGGAGCGTGTGCAGAGGCTCAAGGAGGAGTGCAGGCGCCGAGCCGCGAGC
TCAAGCGCTGCAAGGAGGAGAATAACGACTGGCCATGCGCTGGCGCACCAGAGTGAGG
AGAAGGGCGCCGCTCATGCGGAACCGTGACCTGCAGTGGAGATTGACCAGCTCAAGC
ACAGCCTCATGAAGGCCGAGGACTGCAAGGTGGAGCGCAAGCACACGCTGAAGTCA
GGCAGCCATGGAGCAGCGGCCAGCCAGGAGCTGCTGTGGGAGCTGCAGCAGGAGAAGG
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AGGAGCAGGCCAACACCATCTTCTCCCTGCGCAAGGACCTCCGCCAGGGCGAGGCCGAC
GCCTCCGGTGCATGGAGGAGAAGGAGATGTTTCGAGCTGCAGTGCCTGGCACTACGTAAGG
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TTGAGCGGGACCAGGCCATAGCCACGCGGGAGGAGCTGCACGCACAGCACGCCCGGGGCC
TGCAGGAGAAGGACGCGCTGCGCAAGCAGGTGCGGGAGCTGGCGGAGAAGCGGATGAGC
TGCAGCTGCAGGTGTTCCAGTGTGAGGCGCAGCTACTGGCCGTGGAGGGCAGGCTCAGGC
GGCAGCAGCTGGAGACGCTCGTCTGAGCTCCGACCTGGAAGATGGCTACCCAGGAGGT
CCCAGGAGCTCTCACTCCCCAGGACCTGGAGGACACCCAGCTCTCAGACAAAGGCTGCC
TTGCCGCGGGGGAGCCGAAACAGCCCTTTGCAGCTCTGCACCAGGAGCAGGTTTTGC
GGAACCCCATGACGCAGGCTGAGCAGCGGGAGCCGCCGAGAAGGAGCGGGCGGCC
TCAAAGAGAGTTTTGAGAACTACCGCAGGAAGCGCCCTCAGGAAGATGCAGAAAGGAT
GGCGGCAGGGGAGGAGGACCGGAGAACCACGGGCAGCGACAACCCGACACTGAGG
GCTCCTAGCCGCAGCAGCGCAGGCCCCGACCAGGGCACACCCACCGGCCCGCCCTCCTGC
CACCCGGGGTGCCGACGCCCTGGGGCGCAGACTTCCCCGAGCCGTCGCTGACTTGGCCT
GGAACGAGGAATCTGGTGCCCTGAAAGGCCAGCCGACTGCCGGGCATTGGGGCCGTTT
GTTAAGCGGCACTCATTTTTCGGGAGGCCATGCGGGTGTCCACCACCCCATGCACAGCC
ATCTGTGTAACCTCAGGATCTGTTCTGTTTACCATGTAACACACAATACATGCATGCAC
TGATTAGTGTAGAAAACACAGCTGCGTAAATAAACAGCACGGGTGACCCGCAAAAAA
AAAAAAAAAAAAAAAAAAGTTCGAC
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_052813 unedited</p> <pre>TGCAGCATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGCCGGCGT GCTCCTCCCTCCCTGCAGCCCCGGGCAGCATCTCCAGAGGCTCCGCGGCCAGGCTCCT GGTGTGTCTGCAGTGCAGGTGGCTCCTGGAAGACCCTCAGCCTGCCTGCTGAGGCCATGT CGGACTACGAGAACGATGACGAGTGTGGAACGTCTGGAGGGCTTCCGGGTGACGCTCA CCTCGGTATCGACCCCTCACGCATCACACCTTACCTGCGGCAGTGAAGGTCTGAACC CTGATGATGAGGAGCAGGTGCTCAGCGACCCCAACCTGGTCATCCGCAAACGGAAAGTGG GTGTGCTCCTGGACATCCTGCAGCGGACCGGCCACAAGGCTACGTGGCCTTCTCGAGA GCCTGGAGCTCTACTACCCGAGCTGTACAAGAAGGTCACAGGCAAGGAGCCGGCCGCG TCTTCTCCATGATCATCGACGCTCCGGGGAGTTAGGCCTGACTCAGCTGCTGATGACTG AGGTATGAAGCTGCAGAAGAAAGTGCAGGACCTGACCGCGTCTGAGCTCAAAGATG ACTTCATCAAGGAGCTGCGGGTGAAGGACAGCCTGCTGCGCAAGCACCAGGAGCGTGTGC AGAGGCTCATTGAGGAGTGCAGGCCCGCAGCCGCGAGCTCAGCGCTCAAGGAGGAAAA CTACGACCTGGCCATGCGCCTGGCGCACCATAATGAAGAAAAAGGGCGCCGCGCTATTG CGGAACCGTGACCTGCAGCTGGAGATTGACCAGCTCAAGCCAGCCTCTTAAAGGCCGAG ACGACTGCAAGTTGGAACGCAAGCCACCCTTGAAGTAAGCCCCNTGGAGCACGGGCCAA CCAGAACTGTTGGGGAGCTTCAAGAAAAGCCTGTTCCAGCCCGNG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_052813 unedited</p> <pre>AAAAGTACGACCGCGGCCACACCTANGATCGATTTATATATCTTTTTTTTTTTTTTGC GGGTACCCCGTGTGTTTATTTACGCAGCTGTGTTTTCTAACACTAATACAGTGCATGCA TGTATTGTGTGTACATGGTGAACAGAACAGATCCTGAAGTTACACAGATGGCGTGTGC ATGGGGTGTGTGAGCACCCGCATGGCCTCCGCAAATGAGTGCCGCTTAAACAAACGGCCC CAATGCCCGGCAGTCCGGCTGGGCCTTCAAGGCACCAGATTCCTCGTTCAGGCCAAGT CAGCGACGGCTCGGGGAAGTCTGCGCCCAAGGCGTCGGCACCCCGGGTGGCAAGAAGC CGGGCCGGTGGGTGTGCCCTGGTCGGGGCTGCGCTGCTGCGGCTAGGAGCCCTCAGTGT CGGTGTTGTGCTGCCGTGGTGTCTCCCGGTCTCCTCCCCCTGCCGCATCCTTTCT GCATCTTCTGAAGGCGCGCTTCTGCGGTAGTTCTCAAACTCTTTGAGGCGCCGCC GCTCCTTCTCGGGCGGCTCCCCGCTGCTCAAGCCTGCGTCATGGGGGTTCCGCAAACCT TGCTCTGAGAGCTGGGTGTCTCCAAGTCTGGGGAGTGAGAGCTCCTGGGACCTCCTGG GTGAGCCATCTTCCAAGTCGGAGCTCAAGACGAGCGTCTCCAGCTGCTGGCGCCTGAGCC TGCCCTCCCGCCAGTAGCTGCGGCCTCAACTGGGACACCTGCAGCTGCAGCTTATACCG CCTTTTGGCCAATTTCCGGACTGGTTGACCAAAGCGTCTTTTTTCT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_052813
Insert Size:	2250 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).
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_052813.2](#), [NP_434700.2](#)

RefSeq Size: 2136 bp

RefSeq ORF: 1611 bp

Locus ID: 64170

UniProt ID: [Q9H257](#)

Cytogenetics: 9q34.3

Protein Families: Druggable Genome

Protein Pathways: NOD-like receptor signaling pathway

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 (1) encodes the longer isoform (1).