

Product datasheet for **SC114692**

CARD8 (NM_014959) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD8 (NM_014959) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARD8
Synonyms:	CARDINAL; DACAR; DAKAR; NDPP; NDPP1; TUCAN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_014959 edited
GAATTCGGCACGAGGACAGAACACAGAGCAGCCTGGCAGTGTCCAAGCAACAAGCCTCCG
CTCCTCCTTCTGCACCCCTGGGGCTCCTGAAACTCACATGAGAAGGAGGGCTGTCTGAGA
TTCGAGGGAAACAAGCTCTCAGGACTTCCGGTCGCCATGATGGCTGTGGGCGGTAACGC
GGTTAGTGCAAGCATCTGGGCCATCTTCAATGGTAAAAAGATACAGTAAAGACATAAAT
ACCACATTTGACAAATGGAAAAAAGGAGTGTCCAGAAAAGAGTAGCAGCAGTGAGGAAG
AGCTGCCGAGAGCGGTATACAGGGAGCTACCCTGTGTTTCTGAGACCCTCTGTGACATCT
CACATTTTTTCCAAGAAGATGATGAGACAGAGGCAGAGCCATTATTGTTCCGTGCTGTTT
CTGAGTGTCAACTATCTGGGGGGACATTTCCAGGAGACATTTGCTCAGAAGAGAATCAA
ATAGTTTCTCTTATGCTTCTAAAAAGTCTGTTTTGAGATCGAAGAAGATTATAAAAAATC
GTCAGTTTCTGGGCCTGAAGGAAATGTGGATGTTGAGTTGATTGATAAGAGCACAAACA
GATACAGCGTTTGGTTCCCACTGCTGGCTGGTATCTGTGGTCAGCCACAGGCCTCGGCT
TCCTGGTAAGGGATGAGGTCACAGTGACGATTGCGTTTGGTTCTGGAGTCAGCACCTGG
CCCTGGACCTGCAGCACCATGAACAGTGGCTGGTGGGCGGCCCTTGTGGATGTCAGTGC
CAGAGCCAGAGGAGGCTGTCGCCGAAATCCACCTCCCCCACTTCATCTCCCTCCAAGCAG
GTGAGGTGGACGTCTCCTGGTTTCTCGTTGCCATTTTAAGAATGAAGGGATGGTCTGG
AGCATCCAGCCCGGTGGAGCCTTTCTATGCTGTCTGAAAGCCCCAGCTTCTCTCTGA
TGGGCATCCTGCTGCGGATCGCCAGTGGGACTCGCCTCTCCATCCCCATCACTTCCAACA
CATTGATCTATTACACCCACCCGAAGATATTAAGTCCACTTGTACCTTGTCCCA
GCGACGCTTGTAAACAAGGCGATAGATGATGAGGAAGATCGCTTCCATGGTGTGCGCC
TGCAGACTTCGCCCAATGGAACCCCTGAACTTTGGTTCCAGTTATATTGTGTCTAATT
CTGTAACCTGAAAGTAATGCCAAGTGGATCTCCAGCTTGTAGTGCATCAGCCCCTCC
TCCTTTCTCAGGTGCAGCCTTTGTGAAGGAGAACCACCGCAACTCCAAGCCAGGATGGG
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GGAGCTGGTGGAGCAGGAAAAGACCGGCAAGCAAGAATGAGGCCTTGCTGAGCATGGT
GGAGAAGAAAGGGGACCTGGCCCTGGACGTGCTTTCAGAAGCATTAGTAAAAGGACCC
TTACCTCGTGCTATCTTAGACAGCAGAATTTGTAAGTGAAGTCAAGTATAGGTAGTCTGG
AAGAGAGAATCCAGCGTTCTCATTGAAATGGATAAACAGAAATGTGATCATTGATTCA
GTGTTCAAGACAGAAGAAGACTGGGTAACATCTATCACACAGGCTTTCAGGACAGACTTG
TAACCTGGCATGTACCTATTGACTGTATCCTCATGCATTTTCTCAAGAATGTCTGAAGA
AGGTAGTAATATTCCTTTTAAATTTTTTCCAACCATTGCTTGATATACACTATTTTATC
CATTGACATGATTCTTGAAGACCCAGGATAAAGGACATCCGGATAGGTGTGTTTATGAAG
GATGGGGCCTGGAAAGGCAACTTTTCTGATTAATGTGAAAAATAATTCCTATGGACACT
CCGTTTGAAGTATCACCTTCTCATAACTAAAAGCAGAAAAGCTAACAAAAGCTTCTCAGC
TGAGGACACTCAAGGCATACATGATGACAGTCTTTTTTTTTTTTTTGTATGTTAGGACTT
TAACACTTTATCTATGGCTACTGTTATTAGAACAATGTAATGTATTTGCTGAAAGAGAG
CACAAAATGGGAGAAAATGCAACATGAGCAGAAAATATTTCCCACTGGTGTGTAGCC
TGCTACAAGGAGTTGTTGGGTTAAATGTTTCATGGTCAACTCCAAGGAATACTGAGATGAA
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TGAGACAGACATTCTGGCAATGTACCATACAAAATAAGCCAACCTGACATTTGGAT
TCTACCATAGACTCTGTATTTTGTAGCCATTTTCACTGTCTTTTGTATTGTTTTCGT
GGCACACATATTTCCATCCTTTTATGTTTAAATCTGTTTAAAAACAAGTTCCTAGTAGAAAA
AAAAAAAAAAAAAAGTTCGAC
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014959 unedited ACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGACAGAACACANAGCAGCCTGGC AGTGTCCAAGCAACAAGCCTCCGCTCCTCCTTCTGCACCCTGGGNGCTCCTGAAACTC ACATGAGAAGGAGGGCTGTCTGAGATTCGAGGGAAACAAGCTCTCAGGACTTCCGGTCGC CATGATGGCTGTGGGCGGTAAACGCGGTTAGTGCAAGCATCTGGGCCATCTTCAATGGTA AAAAAGATACAGTAAAGACATAAATACACATTTGACAAATGGAAAAAAGGAGTGTCCA GAAAAGAGTAGCAGCAGTGAGGAAGAGCTGCCGAGACGGGTATACAGGGAGCTACCCTGT GTTTCTGAGACCTCTGTGACATCTCACATTTTTTCCAAGAAGATGATGAGACAGAGGCA GAGCCATTATTGTTCCGTGCTGTTCTGAGTGTCAACTATCTGGGGGGACATCCCAAGG AGACATTTGCTCAGAAGAGAATCAAATAGTTTCCTCTTATGCTTCTAAAAAGTCTGTTTT GAGATCGAAGAAGATTATAAAAAATCGTCAGTTTCTGGGCCTGAAAGAAATGTGGATGTT GAGTTGATTGATAAGAGCACAAACAGATACAGCGTTTGGTTCCCCACTGCTGGCTGGTAT CTGTGGTCAGCCACAGGCCTCGGCTTCTGGAAGGGATGAGGTACAGTGACGATTGCGT TTGGTTCTTGAGTACAGCCTGGCCCTGGACCTGCAGCACCATGAACAGTGGCTGGTGG GCGGCCCTTNGTTGATGCTCACTGCAGAGCCAGAGGAGGCTGTCGNCGAAATCCACTCCC CCATTCATCTCCCTCAGCAGTGAGGTGGACGTCTCCTGTTNNCTCGTGCCCATNTAG AATGAAGGNNATGCTCTGNAGCATNCANCCGGNTGGAGCCTTCTATGCTGCTCCTGAAGNC CCAGCTCTTCTGATGGCATCTG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014959 unedited CGCGGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTNTCTACTAGGAAACTTGNTT TTAACAGNNATTAACATTAAGGGAGTGAAATATGTGGTCCACGAAAAACATTAA TCAAAAGACAGCTGAAATGGCTACAAAATGACAGAGTCTATGGTAGAATCCAATGTCAG AGTTGGCTTATTTTTGTATGGTACATTGCCAGGAATGTCTGTCTCAAAATAAGCTGAAT TACCCTCATTTTCTTTTGGTGGTCTGTGGAGTTGATTTACCACATTTTCATCTCAGTAT TCCTTGGAGTTGACCATGAACATTTAACCAACAACCTCTTGTAGCAGGCTACACACCAG TGGGAAAATATTTCTGCTCATGTTTGCATTTTCTCCATTTTTGTGCTCTCTTTTCAGCA AATACATTTACATTGTTCTAATAACAGTAGCCATAGATAAAGTGTAAAGTCCTAACATA CAAAAAAGAAAAAGACTGTCATCATGTATGCCTTGAGTGTCTCAGCTGAGAAGCTTT TGTTAGCTTTTCTGCTTTTGTATGAGAAGGTGATACTTCAAACGGAGTGTCCATAGGA ATTATTTTTTACATTAATCAGGAAAAGTTGCCTTCCAGGCCCATCCTTCATAAACACA CCTATCCGGATGCTCTTATCCTGGGTCTTTAAGAATCATGTCAATGGATAAAATAGTGA TATATCAAGCCATGGGTTGGAAAAATTAAGGAATATACTACCTTCTCAAACCTTTC TTGAGGAAAATGCTGAAGATACAGTCAATAGGTACTGCCACGTTACAAGGTCTGCCTGAA GCCTGGGTGAAAGAATGTACCCACATCTTTTCTGCCTTGACACTGAAATCAAGAACACAT TTCTGGTTTTCCATTCATGAAACGCTGGATCTTTTTTCAGACTACTAACGACTCTTTT ACAATTCGGCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_014959
Insert Size:	2620 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:	<ol style="list-style-type: none">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_014959.1 , NP_055774.1
RefSeq Size:	5059 bp
RefSeq ORF:	1296 bp
Locus ID:	22900
UniProt ID:	Q9Y2G2
Cytogenetics:	19q13.33
Domains:	CARD
Protein Families:	Druggable Genome
Protein Pathways:	NOD-like receptor signaling pathway
Gene Summary:	<p>The protein encoded by this gene belongs to the caspase recruitment domain (CARD)-containing family of proteins, which are involved in pathways leading to activation of caspases or nuclear factor kappa-B (NFkB). This protein may be a component of the inflammasome, a protein complex that plays a role in the activation of proinflammatory caspases. It is thought that this protein acts as an adaptor molecule that negatively regulates NFkB activation, CASP1-dependent IL1B secretion, and apoptosis. Polymorphisms in this gene may be associated with a susceptibility to rheumatoid arthritis. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, May 2010]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform b), compared to isoform a. Variants 2, 3 and 11 encode the same isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>