

Product datasheet for **SC328804**

CARD8 (NM_001184901) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD8 (NM_001184901) 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)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001184901, the custom clone sequence may differ by one or more nucleotides

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ATGGAAAAAAGGAGTCCAGAAAAGAGTAGCAGCAGTGAAGGAGCTGCCGAGACGG  
GTATACAGGGAGCTACCCTGTGTTTCTGAGACCCTTTGTGACATCTCACATTTTTTCCAA  
GAAGATGATGAGACAGAGGCAGAGCCATTATTGTTCCGTGCTGTTCTGAGTGTCAACTA  
TCTGGGGGGGACATCCAGTGTATCAGAAGAGCAGGAATCTTCAGAGGGACAAGATTCA  
GGAGACATTTGCTCAGAAGAGAATCAAATAGTTTCCTCTTATGCTTCTAAAGTCTGTTTT  
GAGATCGAAGAAGATTATAAAAAATCGTCAGTTTCTGGGGCCTGAAAGAAATGTGGATGTT  
GAGTTGATTGATAAGAGCACAAACAGATACAGCGTTTGGTTCCCCACTGCTGGCTGGTAT  
CTGTGGTCAGCCACAGGCTCGGCTTCTGGTAAGGGATGAGGTCACAGTGACGATTGCG  
TTTGGTTCTGGAGTCAGCACCTGGCCCTGGACCTGCAGCACCATGAACAGTGGCTGGT  
GGCGGCCCTTGTGTTGATGTCAGAGCCAGAGGAGGCTGTGCGCCGAAATCCACCTC  
CCCCACTTCATCTCCCTCCAAGCAGGTGAGGTGGACGTCTCCTGGTTTCTCGTTGCCAT  
TTAAGAATGAAGGGATGGTCTGGAGCATCCAGCCCGGGTGGAGCCTTCTATGCTGTC  
CTGGAAAGCCCCAGCTTCTCTGATGGGCATCCTGCTGCGGATCGCCAGTGGGACTCGC  
CTCTCCATCCCCATCACTTCCAACACATTGATCTATTATCACCCCAACCCGAAGATATT  
AAGTCCACTTGTACCTTGTCCCCAGCGACGCTTGTCTAACAAAGGCGATAGATGATGAG  
GAAGATCGCTCCATGGTGTGCGCCTGCAGACTTCGCCCCAATGGAACCCCTGAACCTT  
GGTCCAGTTATATTGTGTCTAATTCTGCTAACCTGAAAGTAATGCCAAGGAGTTGAAA  
TTGTCCTACAGGAGCCCTGGAGAAATTCAGCACTTCTCAAAATCTATGCTGGGCAGATG  
AAGGAACCCATTCAACTTGTGATTAAGTAAAAAGACATGGGACTTTGGTGTGGGATACT  
GAGGTGAAGCCAGTGGATCTCCAGCTTGTAGCTGCATCAGCCCTCCTCCTTCTCAGGT  
GCAGCCTTGTGAAGGAGAACCACCGCAACTCCAAGCCAGGATGGGGGACCTGAAAGGG  
GTGCTCGATGATCCAAGACAATGAGGTTCTTACTGAGAATGAGAAGGAGCTGGTGGAG  
CAGGAAAAGACACGGCAGAGCAAGAATGAGGCCTTGTGAGCATGGTGGAGAAGAAAGGG  
GACCTGGCCCTGGACGTGCTCTCAGAAGCATTAGTGAAGGGACCTTACCTCGTGTCC  
TATCTTAGACAGCAGAATTTGTAA
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Restriction Sites:	Please inquire
ACCN:	NM_001184901
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:	<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:	<u>NM_001184901.1</u> , <u>NP_001171830.1</u>
RefSeq Size:	5238 bp
RefSeq ORF:	1464 bp
Locus ID:	22900
UniProt ID:	<u>Q9Y2G2</u>
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome
Protein Pathways:	NOD-like receptor signaling pathway

Gene Summary:

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]

Transcript Variant: This variant (3) 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 and 3 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.