

Product datasheet for SC328624

CARD8 (NM_001184903) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CARD8 (NM_001184903) 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_001184903, the custom clone sequence may differ by one or more nucleotides ATGGAAAAAAGGAGTGCCAGAAAAGAGTAGCAGCAGTGAGGAAGAGCTGCCGAGACGG GACAGTGGATCCAGTAGGAACATAGATGCATCCAAACTCATTAGACTACAAGGATCACGG AAACTGTTGGTTGACAATAGCATACGGGAAGTCAATACAAAAACTGGAATTTTTTTT CAGGCTGAGGCCTGTGTGACAAATGATACGGTATACAGGGAGCTACCCTGTGTTCTGAG ACCCTTTGTGACATCTCACATTTTTTCCAAGAAGATGATGAGACAGAGGCAGAGCCATTA TTGTTCCGTGCTGTTCTGAGTGTCAACTATCTGGGGGGACATCCCAGTGTATCAGAA GAGCAGGAATCTCAGAGGGACAAGATTCAGGAGACATTTGCTCAGAAGAGAATCAAATA GTTTCCTTATGCTTCTAAAGTCTGTTTTGAGATCGAAGAAGATTATAAAAATCGTCAG TTTCTGGGCCTGAAGGAAATGTGGATGTTGAGTTGATTGATAAGAGCACAAACAGATAC AGCGTTTGGTTCCCACTGCTGGCTGGTATCTGTGGTCAGCCACAGGCCTCGGCTTCCTG GTAAGGGATGAGGTCACAGTGACGATTGCGTTTGGTTCCCTGGAGTCAGCACCTGGCCCTG GACCTGCAGCACCATGAACAGTGGCTGGTGGGCGGCCCTTGTGATGTCACTGCAGAG CCAGAGGAGGCTGTCGCCGAAATCCACCTCCCCACTTCACTCCCTCCAAGCAGGTGAG GTGGACGTCTCCTGTTTCTCGTTGCCATTTAAGAATGAAGGGATGGTCTGGAGCAT CCAGCCCGGTGGAGCCTTCTATGCTGTCTGGAAGCCCACTTCTCTCTGATGGGC ATCCTGCTGCGGATCGCCAGTGGGACTCGCCTTCCATCCCCATCACTTCCAACACATTG ATCTATTACACCCCAACCCGAAGATATTAAGTCCACTTGTACCTTGTCCCCAGCGAG GCCTTGCTAACAAAGGCGATAGATGATGAGGAAGATCGCTTCCATGGTGTGCGCCTGAG ACTTCGCCCAATGGAACCCCTGAACCTTGGTTCCAGTTATATTGTGTCTAATTCTGCT AACCTGAAAGTAATGCCAAGTGGATCTCCAGCTTGATG |
| Restriction Sites: | Please inquire |
| ACCN: | NM_001184903 |



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_001184903.1](#), [NP_001171832.1](#)

RefSeq Size: 5246 bp

RefSeq ORF: 1179 bp

Locus ID: 22900

UniProt ID: [Q9Y2G2](#)

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 (5) differs in the 5' UTR and lacks an alternate exon in the 3' coding region, which results in a frameshift compared to variant 1. This results in a shorter protein (isoform c), compared to isoform a. Variants 4 and 5 encode the same isoform (c).

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.