

Product datasheet for **RG230166**

CARD8 (NM_001184901) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD8 (NM_001184901) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CARD8
Synonyms:	CARDINAL; DACAR; DAKAR; NDPP; NDPP1; TUCAN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230166 representing NM_001184901
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGAAAAAGGAGTGTCCAGAAAAGAGTAGCAGCAGTGAAGGAGCTGCCGAGACGGGTATACAGGG
 AGCTACCTCTGTTTTCTGAGACCTTTGTGACATCTCACATTTTTTCCAAGAAGATGATGAGACAGAGGC
 AGAGCCATTATTGTTCCGTGCTGTTCTGAGTGTCAACTATCTGGGGGGGACATCCCAAGTGTATCAGAA
 GAGCAGGAATCTTCAGAGGGACAAGATTCAGGAGACATTTGCTCAGAAGAGAATCAAATAGTTTCTCTCT
 ATGCTTCTAAAGTCTGTTTTGAGATCGAAGAAGATTATAAAAAATCGTCAGTTTCTGGGCCTGAAGGAAA
 TGTGGATGTTGAGTTGATTGATAAGAGCACAAACAGATACAGCGTTTGGTTCCCACTGCTGGCTGGTAT
 CTGTGGTCAGCCACAGGCCTCGGCTTCTGGTAAGGGATGAGGTCACAGTACGATTGCGTTTGGTTCTCT
 GGAGTCAGCACCTGGCCCTGGACCTGCAGCACCATGAACAGTGGTGGTGGGCGGCCCTGTTTGTATGT
 CACTGCAGAGCCAGAGGAGGCTGTCCGCGAAATCCACCTCCCCACTTCACTCCCTCCAAGCAGGTGAG
 GTGGACGTCTCCTGGTTTCTCGTTGCCATTTTAAAGATGAAGGGATGGTCTGGAGCATCCAGCCCGGG
 TGGAGCCTTTCTATGCTGTCTGAAAGCCCCAGCTTCTCTCTGATGGGCATCCTGCTGCGGATCGCCAG
 TGGGACTCGCCTCTCATCCCCATCACTTCCAACACATTGATCTATTATCACCCCCACCCGAAGATATT
 AAGTTCACCTTGTACCTTGTCCCGAGCAGCCTTGTCTAACAAGGGCATAGATGATGAGGAAGATCGCT
 TCCATGGTGTGCGCCTGCAGACTTCGCCCCCAATGGAACCCCTGAACTTTGGTCCAGTTATATTGTGTC
 TAATTCGCTAACCTGAAAGTAAAGCCCAAGGAGTTGAAATTGCTCTACAGGAGCCCTGGAGAAATTCAG
 CACTTCTCAAAATCTATGCTGGCAGATGAAGGAACCCATTCACTTGAATTAAGTAAAGGACATCAG
 GGACTTTGGTGTGGGATACTGAGGTGAAGCCAGTGGATCTCCAGCTTGTAGCTGCATCAGCCCTCCCTC
 TTTCTCAGGTGCAGCCTTTGTGAAGGAGAACCACCGCAACTCCAAGCCAGGATGGGGGACCTGAAAGGG
 GTGCTCGATGATCTCAAGACAATGAGGTTCTTACTGAGAATGAGAAGGAGCTGGTGGAGCAGGAAAAGA
 CACGGCAGAGCAAGAATGAGGCCTTGTGAGCATGGTGGAGAAGAAAGGGGACCTGGCCCTGGACGTGCT
 CTTCAGAAGCATTAGTGAAGGGACCCTTACCTCGTGTCTATCTTAGACAGCAGAATTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230166 representing NM_001184901
 Red=Cloning site Green=Tags(s)

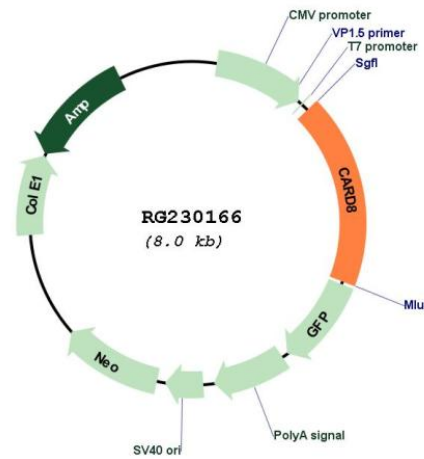
MEKKECPEKSSSSEELPRRVYRELPCVSETLCDISHFFQEDDETEAEPLLFRAVPECQLSGGDIPVSE
 EQESSEGQDSGDICSEENQIVSSYASKVCFEIEEDYKNRQFLGPEGNVDVELIDKSTNRYSVWFPTAGWY
 LWSATGLGFLVRDEVTVTIAFGSWSQHLALDLQHHEQWL VGGPLFDVTAEPPEEVAEIHLPHFISLQAGE
 VDVSFVLVAHFKNEGMVLEHPARVEPFYAVLESFSLMGILLRIASGTRLSIPITSNTLIYYHPHPEDI
 KFHLYLVPDALLTKAIDDEEDRFHGVRLQTSPPMEPLNFGSSYIVSNSANLKVMPKELKLSYRSPGEIQ
 HFSKFYAGQMKPEIQLEITEKRHGTLVWDTEVKPVDLQLVAASAPPPFSGAAFVKENHRQLQARMGDLKG
 VLDDLQDNEVL TENEKELVEQEKRQSKNEALLSMVEKKGDLALDVLFRSISERDPYLVSYLRQQNL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Plasmid Map:


ACCN: NM_001184901

ORF Size: 1461 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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, 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:	<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>