

Product datasheet for **RG229986**

CARD8 (NM_001184903) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD8 (NM_001184903) 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)
ORF Nucleotide Sequence:	>RG229986 representing NM_001184903 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAAAAAGGAGTGTCCAGAAAAGAGTAGCAGCAGTGAGGAAGAGCTGCCGAGACGGGACAGTGGAT
CCAGTAGGAACATAGATGCATCCAACTCATTAGACTACAAGGATCACGGAACTGTTGGTTGACAATAG
CATACGGGAAGTCAATACAAAACTGGAATTTTTTTTCAGGCTGAGGCTGTGTGACAAATGATACG
GTATACAGGGAGCTACCCTGTGTTCTGAGACCCTTTGTGACATCTCACATTTTTTCCAAGAAGATGATG
AGACAGAGGCAGAGCCATTATTGTTCCGTGCTGTTCTCTGAGTGCAACTATCTGGGGGGACATTCCCAG
TGTATCAGAAGAGCAGGAATCTTCAGAGGGACAAGATTCAGGAGACATTTGCTCAGAAGAGAATCAAATA
GTTTCCTCTTATGCTTCTAAAGTCTGTTTTGAGATCGAAGAAGATTATAAAAATCGTCAGTTTCTGGGGC
CTGAAGGAAATGTGGATGTTGAGTTGATTGATAAGAGCACAAACAGATACAGCGTTTGGTCCCCACTGC
TGGCTGGTATCTGTGGTCAGCCACAGGCCTCGGCTTCTGGTAAGGGATGAGGTCACAGTGACGATTGCG
TTTGGTTCCTGGAGTCAGCACCTGGCCCTGGACCTGCAGCACCATGAACAGTGGCTGGTGGGCGGCCCT
TGTTTGATGTCACTGCAGAGCCAGAGGAGGCTGTCCGCGAAATCCACCTCCCCACTTCACTCCCTCCA
AGCAGGTGAGGTGGACGCTCTCTGGTTTCTCGTTGCCATTTAAGAATGAAGGGATGGTCTGGAGCAT
CCAGCCCAGGTGGAGCCTTCTATGCTGTCTGAAAGCCAGCTTCTCTGATGGGCATCCTGCTGC
GGATCGCCAGTGGGACTCGCCTCTCCATCCCCATCACTTCCAACACATTGATCTATTATCACCCCCACCC
CGAAGATATTAAGTTCCACTTGTACCTTGTCCCCAGCAGCCTTGCTAACAAAGCGGATAGATGATGAG
GAAGATCGCTTCCATGGTGTGCGCTGCAGACTTCGCCCCAATGGAACCCCTGAACTTTGGTTCCAGTT
ATATTGTGCTAATTCTGCTAACCTGAAAGTAATGCCAAGTGGATCTCCAGCTT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229986 representing NM_001184903
Red=Cloning site Green=Tags(s)

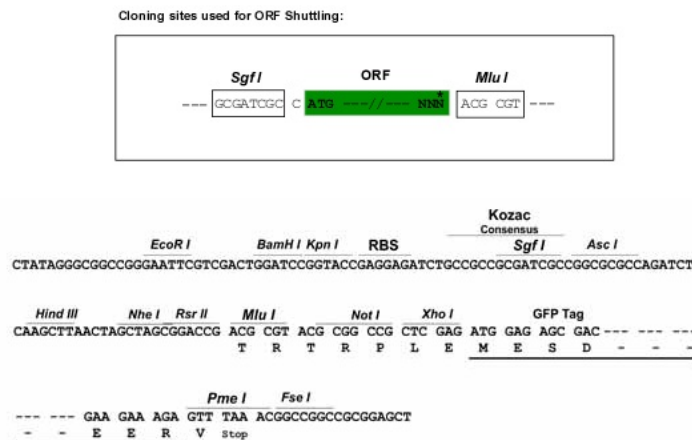
MEKKECPEKSSSSEEELPRRDSGSSRNIDASKLIRLQGSRKLLVDNSIRELQYTKTGIFQAEACVTNDT
 VYRELPCVSETLCDISHFFQEDDETEAEPLLFRVPEQCQLSGGDIPSVSEEQESSEGGQSDGICSEENQI
 VSSYASKVCFEIEEDYKNRQFLGPEGNVDVELIDKSTNRYSVWFPTAGWYLWSATGLGFLVRDEVTVTIA
 FGSWSQHLALDLQHHEQWLVGGLPFDVTAEPPEAVAEIHLPHFISLQAGEVDVSWFLVAHFKNMGVLEH
 PARVEPFYAVLESPSFSLMGILLRIASGTRL SIPITSNLTIYYHPHPEDIKFHLYLVPDALLTKAIDDE
 EDRFHGVRQLTSPPEPLNFGSSYIVSNSANLKVMPKWISSL

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2049_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001184903

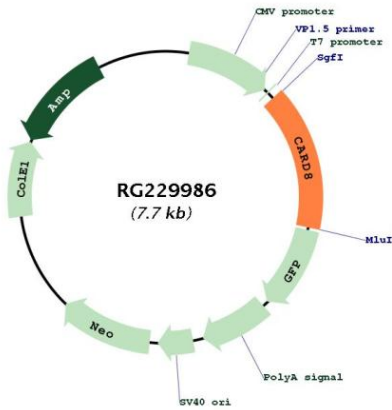
ORF Size: 1176 bp

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 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_001184903.1</u> , <u>NP_001171832.1</u>
RefSeq Size:	5246 bp
RefSeq ORF:	1179 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]

Product images:



Circular map for RG229986