

Product datasheet for **RG211512**

CARD8 (NM_014959) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CARD8 (NM_014959) 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: >RG211512 representing NM_014959
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCCTGGAGCATCCAGCCCGGGTGGAGCCTTTCTATGCTGTCTGGAAAGCCCCAGCTTCTCTCTGA
 TGGGCATCCTGCTGCGGATCGCCAGTGGGACTCGCCTCTCCATCCCCATCACTTCCAACACATTGATCTA
 TTATCACCCCAACCCGAAGATATTAAGTTCCACTTGTACCTTGCCCCAGCGACGCTTGTAAACAAAG
 GCGATAGATGATGAGGAAGATCGCTTCCATGGTGTGCGCCTGCAGACTTCGCCCAATGGAACCCCTGA
 ACTTTGGTCCAGTTATATTGTGTCTAATTCTGCTAACCTGAAAGTAATGCCCAAGTGGATCTCCAGCTT
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211512 representing NM_014959
 Red=Cloning site Green=Tags(s)
 MVLEHPARVEPFYAVLESPSFLMGILLRIASGTRLSIPITSNTLIYYHPPEDIKFHLYLVPSDALLTK
 AIDDEEDRFHGVRLQTSPPMEPLNFGSSYIVSNSANLKVMPKWISSL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_014959

ORF Size: 351 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:

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.

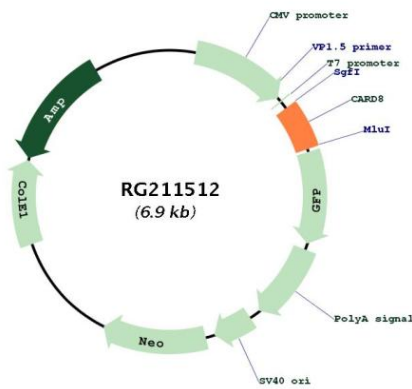
RefSeq: [NM_014959.1](#), [NP_055774.1](#)

RefSeq Size: 5349 bp

RefSeq ORF: 1464 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: 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 RG211512