

Product datasheet for **RG235124**

CARD12 (NLRC4) (NM_001199139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD12 (NLRC4) (NM_001199139) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NLRC4
Synonyms:	AIFEC; CARD12; CLAN; CLAN1; CLANA; CLANB; CLANC; CLAND; CLR2.1; FCAS4; IPAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235124 representing NM_001199139 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGAATTCATAAAGGACAATAGCCGAGCCCTTATCAAAGAATGGGAATGACTGTTATAAAGCAAATCA
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CTCCGGTACACCTGTGGGTCATCTGTGGAAGCCACCAGGGCTGTTATGAAGCACCTCGCAGCAGTGTATC
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG235124 representing NM_001199139
Red=Cloning site Green=Tags(s)

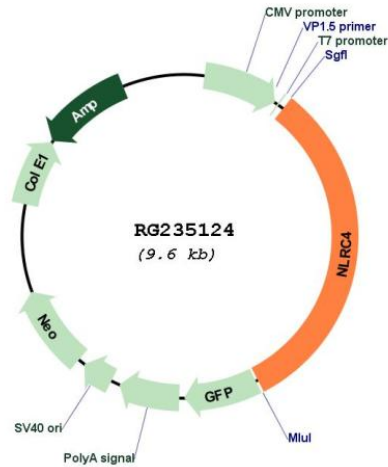
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PALVRKLSQVLSKLTFLQEARLVGWQFDDDDL SVITGAFKLVTA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001199139

ORF Size: 3072 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_001199139.1</u> , <u>NP_001186068.1</u>
RefSeq Size:	3254 bp
RefSeq ORF:	3075 bp
Locus ID:	58484
UniProt ID:	<u>Q9NPP4</u>
Cytogenetics:	2p22.3
Protein Pathways:	NOD-like receptor signaling pathway
Gene Summary:	This gene encodes a member of the caspase recruitment domain-containing NLR family. Family members play essential roles in innate immune response to a wide range of pathogenic organisms, tissue damage and other cellular stresses. Mutations in this gene result in autoinflammation with infantile enterocolitis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]