

Product datasheet for RC239883

CARD15 (NOD2) (NM_001293557) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD15 (NOD2) (NM_001293557) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NOD2
Synonyms:	ACUG; BLAU; BLAUS; CARD15; CD; CLR16.3; IBD1; NLR2; NOD2B; PSORAS1; YAOS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC239883 representing NM_001293557 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC239883 representing NM_001293557
Red=Cloning site Green=Tags(s)

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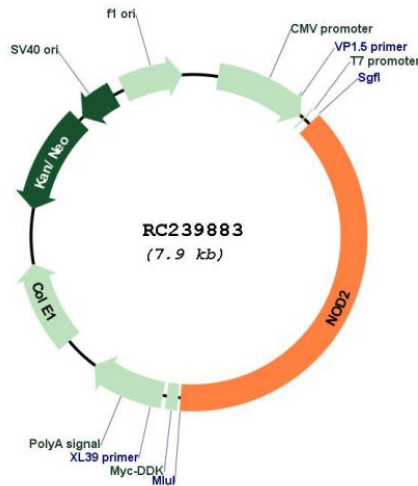
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Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001293557

ORF Size: 3039 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:	NM_001293557.2
RefSeq Size:	4459 bp
RefSeq ORF:	3042 bp
Locus ID:	64127
UniProt ID:	Q9HC29
Cytogenetics:	16q12.1
Protein Families:	Druggable Genome
Protein Pathways:	NOD-like receptor signaling pathway
MW:	113 kDa
Gene Summary:	This gene is a member of the Nod1/Apaf-1 family and encodes a protein with two caspase recruitment (CARD) domains and six leucine-rich repeats (LRRs). The protein is primarily expressed in the peripheral blood leukocytes. It plays a role in the immune response to intracellular bacterial lipopolysaccharides (LPS) by recognizing the muramyl dipeptide (MDP) derived from them and activating the NFkB protein. Mutations in this gene have been associated with Crohn disease and Blau syndrome. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jun 2014]