

Product datasheet for **SC305010**

CARD15 (NOD2) (NM_022162) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD15 (NOD2) (NM_022162) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARD15
Synonyms:	ACUG; BLAU; BLAUS; CARD15; CD; CLR16.3; IBD1; NLRC2; NOD2B; PSORAS1; YAOS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC305010 sequence for NM_022162 edited (data generated by NextGen Sequencing)

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ATGGGGGAAGAGGGTGGTTCAGCCTCTCACGATGAGGAGGAAAGACAGTGTCTCTCGGACATTCTC
CGGGTTGTGAAATGTGCTCGCAGGAGGCTTTTCAGGCACAGAGGAGCCAGCTGGTCGAGCTGCTGGTCTC
AGGGTCCCTGGAAGGCTTCGAGAGTGTCTGGACTGGCTGCTGTCTGGGAGGCTCTCTCTGGGAGGAC
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GCCCTGCCTTTGGAAGCTGCCACATGCAAGAAGTATATGGCCAAGCTGAGGACCAGGCTGTCTGCTCAGT
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TGCAGGCCCTTGAAGGAATGACACCATCTGGAAGTCTGGCTCCGAGGGAACACTTTCTCTAGAGGA
GGTTGACAAGCTCGGCTGCAGGGACACCAGACTCTTGCTTGA
    
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Clone variation with respect to NM_022162.2

Restriction Sites:	Please inquire
ACCN:	NM_022162
Insert Size:	3100 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_022162.1 , NP_071445.1
RefSeq Size:	4499 bp
RefSeq ORF:	3123 bp
Locus ID:	64127
UniProt ID:	Q9HC29
Cytogenetics:	16q12.1
Protein Families:	Druggable Genome
Protein Pathways:	NOD-like receptor signaling pathway

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 NFκB 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]
Transcript Variant: This variant (1) encodes the longer isoform (1).