

Product datasheet for **RG215750**

CARD15 (NOD2) (NM_022162) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD15 (NOD2) (NM_022162) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CARD15
Synonyms:	ACUG; BLAU; BLAUS; CARD15; CD; CLR16.3; IBD1; NLR2; NOD2B; PSORAS1; YAOS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215750 representing NM_022162 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGAAGAGGGTGGTTCAGCCTCTCACGATGAGGAGGAAAGAGCAAGTGTCTCTCGGACATTCTC
CGGGTTGTGAAATGTGCTCGCAGGAGGCTTTTCAGGCACAGAGGAGCCAGCTGGTCGAGCTGCTGGTCTC
AGGGTCCCTGGAAGGCTTCGAGAGTGTCTGGACTGGCTGCTGCTGGGAGGTCCTCTCTGGGAGGAC
TACGAGGGCTTCCACCTCTGGCCAGCCTCTCTCCACTTGGCCAGGCGCCTTCTGGACACCGTCTGGA
ATAAGGGTACTTGGCCCTGTCAGAAGCTCATCGCGGCTGCCAAGAAGCCAGGCCGACAGCCAGTCCCC
CAAGCTGCATGGCTGCTGGGACCCCACTCGCTCCACCCAGCCGAGACCTGCAGAGTACCGGCCAGCC
ATTGTCAGGAGGCTCCACAGCCATGTGGAGAACATGCTGGACCTGGCATGGGAGCGGGTTCGTCAGCC
AGTATGAATGTGATGAAATCAGGTTGCCGATCTTACACCCGTCAGAGGCAAGAAGGCTGCTTGATCT
TGCCACGGTGAAGCGAATGGATTGGCTGCCTTCTTCTACAACATGTTGAGGAATTACCAGTCCCATTG
GCCCTGCCTTTGGAAGCTGCCACATGCAAGAAGTATATGGCCAAGCTGAGGACCAGGTGTCTGCTCAGT
CTCGCTTCTCAGTACCTATGATGGAGCAGAGACGCTCTGCTGGAGGACATATACACAGAGAATGCTCT
GGAGTCTGGGCAGATGTGGCATGGCTGGACCCCGCAGAAGAGCCAGCCACCTGGGCTGGAGGAG
CTCTTTCAGCACCCCTGGCCACCTCAATGACGATGCGGACACTGTGCTGGTGGTGGGAGGCGGAGT
GCAAGAGCACGCTCCTGCAGCGGCTGCACTTGTGTGGGCTGCAGGGCAAGACTTCCAGGAATTTCTCTT
TGTCTTCCATTAGCTGCCGGCAGCTGCAGTGCATGGCCAAACCACTCTCTGTGCGGACTCTACTCTTT
GAGCACTGCTGTTGGCCTGATGTTGGTCAAGAAGACATCTTCCAGTTACTCCTTGACCACCTGACCGTG
TCCTGTTAACCTTTGATGGCTTTGACGAGTTCAAGTTCAGGTTACGGATCGTGAACGCCACTGCTCCCC
GACCGACCCACCTCTGTCCAGACCCTGCTCTTCAACCTTCTGCAGGGCAACCTGCTGAAGAATGCCCGC
AAGGTGGTGACCAGCCGTCGGCCGCTGTGTCGGGTTTCTCAGGAAGTACATCCGACCCAGGTTCAACC
TCAAGGGCTTCTCTGAACAGGGCATCGAGCTGTACCTGAGGAAGCGCCATCATGAGCCCGGGGTGGCGGA
CCGCTCATCCGCTGCTCCAAGAGACCTCAGCCCTGCACGGTTGTGCCACCTGCTGTCTTCTCATGG



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ATGGTGTCCAAATGCCACCAGGAAGTGTGCTGCAGGAGGGGGTCCCCAAAGACCACTACAGATATGT
 ACCTGCTGATTCTGCAGCATTTTCTGCTGCATGCCACCCCCAGACTCAGCTTCCCAAGGTCTGGGACC
 CAGTCTTCTTCGGGGCCGCTCCCCACCCTCTGCACCTGGGCAGACTGGCTCTGTGGGGCTGGGCATG
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 GTGGGTGACGAGGGGGCCAGGCCTGGCTGAAGCCTTGGGTGATCACCAGAGCTTGAGGTGGCTCAGCC
 TGGTGGGAACAACATTGGCAGTGTGGGTGCCAAGCCTTGGCACTGATGCTGGCAAAGAACGTCATGCT
 AGAAGAAGTCTGCCTGGAGGAGAACCATCTCCAGGATGAAGGTGTATGTTCTCTCGCAGAAGGACTGAAG
 AAAAATCAAGTTTAAAAATCTGAAGTTGTCCAATAACTGCATCACCTACCTAGGGGCAGAAGCCCTCC
 TGCAGGCCCTTGAAGGAATGACACCATCTGGAAGTCTGGCTCCGAGGGAACACTTTCTCTAGAGGA
 GTTGCAGAAGCTCGGCTGCAGGGACACCAGACTTGTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215750 representing NM_022162
 Red=Cloning site Green=Tags(s)

MGEEGGSASHDEEERASVLLGHSPGCEMCSQEFQAQRSQVVELLVSGSLEGFESVLDWLLSWEVLSWED
 YEGFHLLGQPLSHLARRLLDVTWVWNGTWACQKLIAAAQEAQADSQSPKLGHCWDPHSLHPARDLQSHRPA
 IVRRLHSHVENMLDLAWERGFVSQYECDEIRLPIFTPSQRARRLLDLATVKANGLAAFLLQHVQELPVPL
 ALPLEAATCKKYMAKLRITVSAQSRFLSTYDGAETLCLEDIYTENVLEWADVGMAGPPQKSPATLGLLE
 LFSTPGHLNDDADTVLVGEAGSGKSTLLQRLHLLWAAGQDFQEFVFPFSCRQLQCMAPL SVRTLLF
 EHCCWPDVQEDIFQLLLDHPDRVLLTFDGFDEFKFRFTDRERHCSPTDPTSVQTLLENLLQGNLLKNAR
 KVVTSRPAAVSAFLRKYIRTEFNKGFSEQGIELYLRKRHHPEGVADRLIRLLQETSALHGLCHLPVFSW
 MYSKCHQELLLQEGGSPKTTTDMYLLILQHFLHATPPDSASQGLGPSLLRGRPLTLLHLGRLALWGLGM
 CCYVFSQQQLQAAQVSPDDISLGFVRAKGVVPGSTAPLEFLHITFQCFFAFYLAAL SADVPPALLRHLF
 NCGRPGNSPMARLLPTMCIQASEGKDSSVAALLQKAEPHNLQITAAFLAGLLSREHWGLLAECQTSEKAL
 LRRQACARWCLARSLRKHFHSIPPAAPGEAKSVHAMPGF IWLIRSLYEMQEERLARKAARGLNVGHKLKLT
 FCSVGPTECAALAFVLQHLRRPVALQLDYNVSGDIGVEQLL PCLGVCKALYLRDNNISDRGICKLIECAL
 HCEQLQKLALFNNKLTGCAHSMAKLLACRQNFALRLGNNYITAAGAQLVAEGLRGNTSLQFLGFWGNR
 VGDEGAQALAEALGDHQSLRWLSLVGNNIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCSLAEGLK
 KNSSLKILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEVKLGCRDTRLLL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_022162.3](#)

RefSeq Size: 4485 bp

RefSeq ORF: 3123 bp

Locus ID: 64127

UniProt ID: [Q9HC29](#)

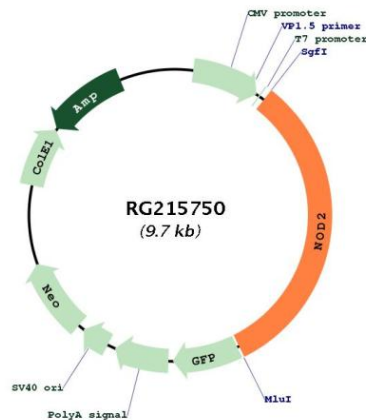
Cytogenetics: 16q12.1

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 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]

Product images:



Circular map for RG215750