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Product datasheet for RC213900

NLRC3 (NM_178844) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NLRC3 (NM_178844) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NLRC3
Synonyms:	CLR16.2; NOD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213900 representing NM_178844 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGGAAGCAAGAGGTGCGGACGGGCAGGGAGGCCGGCCAGGGCCACGGTACGGGCTCCCCAGCCGAGC AGGTGAAAGCCCTCATGGATCTGCTGGCTGGGAAGGGCAGTCAAGGCTCCCAGGCCCCGCAGGCCCTGGA TAGGACACCGGATGCCCCGCTGGGGCCCTGCAGCAATGACTCAAGGATACAGAGGCACCGCAAGGCCCTG CTGAGCAAGGTGGGAGGTGGCCCGGAGCTGGGCGGACCCTGGCACAGGCTGGCCTCCCTCCTGCTGGTGG AGGGCCTGACGGACCTGCAGCTGAGGGAACACGACTTCACACAGGTGGAGGCCACCCGCGGGGGCGGGCA CCCCGCCAGGACCGTCGCCCTGGACCGGCTCTTCCTGCCTCTCTCCCGGGTGTCTGTCCCACCCCGGGTC TCCATCACTATCGGGGTGGCCGGCATGGGCAAGACCACCCTGGTGAGGCACTTCGTCCGCCTCTGGGCCC ATGGGCAGGTCGGCAAGGACTTCTCGCTGGTGCTGCCTCTGACCTTCCGGGATCTCAACACCCACGAGAA GCTGTGTGCCGACCGACTCATCTGCTCGGTCTTCCCGCACGTCGGGGAGCCCAGCCTGGCGGTGGCAGTC CCAGCCAGGGCCCTCCTGATCCTGGACGGCTTGGATGAGTGCAGGACGCCTCTGGACTTCTCCAACACCG TGGCCTGCACGGACCCAAAGAAGGAGATCCCGGTGGACCACCTGATCACCAACATCATCCGTGGCAACCT CTTTCCGGAAGTTTCCATCTGGATCACCTCCCGTCCCAGTGCATCTGGCCAGATCCCAGGGGGCCTGGTG GACCGGATGACGGAGATCCGGGGCTTTAACGAGGAGGAGATCAAGGTGTGTTTGGAGCAGATGTTCCCCG AGGACCAGGCCCTTCTGGGCTGGATGCTGAGCCAAGTGCAGGCTGACAGGGCCCTGTACCTGATGTGCAC CGTCCCAGCCTTCTGCAGGCTCACGGGGATGGCGCTAGGCCACCTGTGGCGCAGCAGGACGGGGCCCCAG GATGCAGAGCTGTGGCCCCCGAGGACCCTGTGCGAGCTCTACTCATGGTACTTTAGGATGGCCCTCAGCG GGGAGGGGCAGGAGAAGGGCAAGGCAAGCCCTCGCATCGAGCAGGTGGCCCATGGTGGCCGCAAGATGGT GGGGACATTGGGCCGTCTGGCCTTCCATGGGCTGCTCAAGAAGAAATACGTGTTTTACGAGCAAGACATG AAGGCGTTTGGTGTAGACCTCGCTCTGCTGCAGGGCGCCCCGTGCAGCTGCTTCCTGCAGAGAGAGGAGA CGTTGGCATCGTCAGTGGCCTACTGCTTCACCCACCTGTCCCTGCAGGAGTTTGTGGCAGCCGCGTATTA CTATGGCGCATCCAGGAGGGCCATCTTCGACCTCTTCACTGAGAGCGGCGTATCCTGGCCCAGGCTGGGC

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213900 representing NM_178844
Red=Cloning site Green=Tags(s)

MRKQEVRTGREAGQGHGTGSPAEQVKALMDLLAGKGSQGSQAPQALDRTPDAPLGPCSNDSRIQRHRKAL
LSKVGGGPELGGPWHRLASLLLVEGLTDLQLREHDFTQVEATRGGGHPARTVALDRLFLPLSRVSVPPRV
SITIGVAGMGKTTLVRHFVRLWAHGQVGKDFSLVLPLTFRDLNTHEKLCADRLICSVFPHVGEPSLAVAV
PARALLILDGLDECRTPLDFSNTVACTDPKKEIPVDHLITNIIRGNLFPEVSIWITSRPSASGQIPGGLV
DRMTEIRGFNEEEIKVCLEQMFPEDQALLGWMLSQVQADRALYLMCTVPAFCRLTGMALGHLWRSRTGPQ
DAELWPPRTLCELYSWYFRMALSGEGQEKGKASPRIEQVAHGGRKMVGTLGRLAFHGLLKKKYVFYEQDM
KAFGVDLALLQGAPCSCFLQREETLASSVAYCFTHLSLQEFVAAAYYYGASRRAIFDLFTESGVSWPRLG
FLTHFRSAAQRAMQAEDGRLDVFLRFLSGLLSPRVNALLAGSLLAQGEHQAYRTQVAELLQGCLRPDAAV
CARAINVLHCLHELQHTELARSVEEAMESGALARLTGPAHRAALAYLLQVSDACAQEANLSLSLSQGVLQ
SLLPQLLYCRKLRLDTNQFQDPVMELLGSVLSGKDCRIQKISLAENQISNKGAKALARSLLVNRSLTSLD
LRGNSIGPQGAKALADALKINRTLTSLSLQGNTVRDDGARSMAEALASNRTLSMLHLQKNSIGPMGAQRM
ADALKQNRSLKELMFSSNSIGDGGAKALAEALKVNQGLESLDLQSNSISDAGVAALMGALCTNQTLLSLS
LRENSISPEGAQAIAHALCANSTLKNLDLTANLLHDQGARAIAVAVRENRTLTSLHLQWNFIQAGAAQAL
GQALQLNRSLTSLDLQENAIGDDGACAVARALKVNTALTALYLQVASIGASGAQVLGEALAVNRTLEILD
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SEAIKTNAPTCTVEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8029_h05.zip

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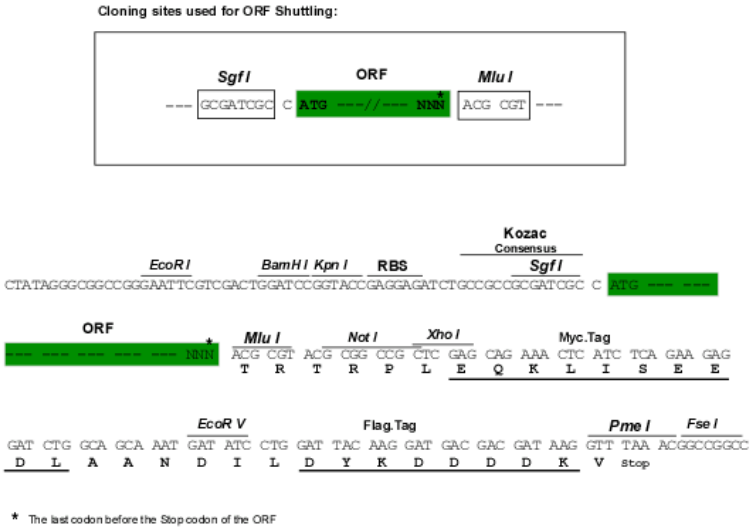
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178844

ORF Size: 3195 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_178844.4

RefSeq Size: 3414 bp

RefSeq ORF: 3198 bp

Locus ID: 197358

UniProt ID: Q7RTR2

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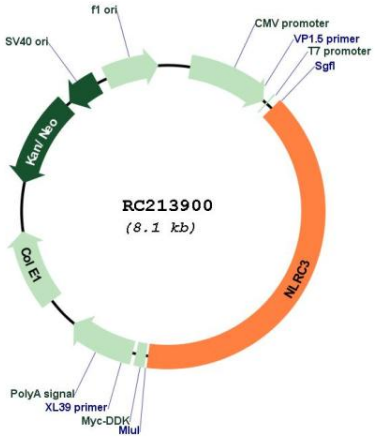
Cytogenetics: 16p13.3

Protein Families: Druggable Genome

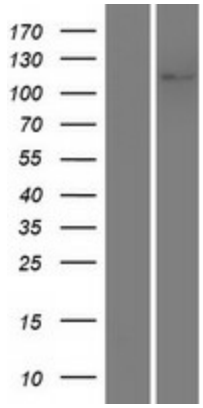
MW: 114.5 kDa

Gene Summary: This gene encodes a NOD-like receptor family member. The encoded protein is a cytosolic regulator of innate immunity. This protein directly interacts with stimulator of interferon genes (STING), to prevent its proper trafficking, resulting in disruption of STING-dependent activation of the innate immune response. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RC213900



Western blot validation of overexpression lysate (Cat# [LY405859]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213900 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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