

## Product datasheet for **RG206757**

### CARD12 (NLRC4) (NM\_021209) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CARD12 (NLRC4) (NM_021209) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CARD12
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:	>RG206757 representing NM_021209 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATTCATAAAGGACAATAGCCGAGCCCTTATCAAAGAATGGGAATGACTGTTATAAAGCAAATCA  
CAGATGACCTATTTGTATGGAATGTTCTGAATCGGAAGAAGTAAACATCATTGCTGCGAGAAGGTGGA  
GCAGGATGCTGCTAGAGGGATCATTACATGATTTTAAAAAGGGTTAGAGTCTGTAACTCTTTCTT  
AAATCCCTTAAGGAGTGGAACTATCCTCTATTTAGGACTTGAATGGACAAAGTCTTTTCATCAGACAT  
CAGAAGGAGACTTGGACGATTTGGCTCAGGATTTAAAGGACTTGTACCATACCCATCTTTTCTGAACTT  
TTATCCCCTTGGTGAAGATATTGACATTTTTAACTTGAAAAGCACCTTACAGAACCTGTCCCTGTGG  
AGGAAGGACCAACACCATCACCGCTGGAGCAGCTGACCCGAATGGCCTCCTGCAGGCTCTTCAGAGCC  
CCTGCATCATTGAAGGGGAATCTGGCAAAGGCAAGTCCACTCTGCTGCAGCGAATTGCCATGCTCTGGG  
CTCCGAAAGTGAAGGCTCTGACCAAGTTCAAATTCGTCTTCTCCTCCGTCTCAGCAGGGCCAGGGT  
GGACTTTTGAACCCCTCTGTGATCAACTCCTGGATATACCTGGCACAATCAGGAAGCAGACATTCATGG  
CCATGCTGCTGAAGTGCAGGAGGTTCTTTCTTCTTGTATGGCTACAATGAATCAAGCCCCAGAA  
CTGCCCAGAAATCGAAGCCCTGATAAAGGAAAACCACCGCTTCAAGAACATGGTCATCGTCAACTACC  
ACTGAGTGCCTGAGGCACATACGGCAGTTTGGTGCCCTGACTGCTGAGGTGGGGATATGACAGAAGACA  
GCGCCAGGCTCTCATCCGAGAAGTGTGATCAAGGAGCTTGCTGAAGGCTTGTGCTCCAAATTCAGAA  
ATCCAGGTGCTTGAAGATCTCATGAAGACCCCTCTTTGTGGTCATCACTTGTGCAATCCAGATGGGT  
GAAAGTGAGTTCCACTCTCACACACAAACAACGCTGTTCCATACCTTCTATGATCTGTTGATACAGAAAA  
ACAAACACAAACATAAAGGTGTGGCTGCAAGTACTTCATTCCGAGCCTGGACACTGTGGAGACCTAGC  
TCTGGAGGTGTGTTCTCCACAAGTTTGAATTCGAACTGCAGGATGTGTCCAGCGTGAATGAGGATGTC  
CTGCTGACAACTGGGCTCCTCTGTAATATACAGCTCAAAGTTCAAGCCAAAGTATAAATCTTTTACA  
AGTCATTCCAGGAGTACACAGCAGGACGAAGACTCAGCAGTTTATTGACGTCTCATGAGCCAGAGGAGT  
GACCAAGGGGAATGGTTACTTGCAGAAAATGGTTCCATTTCCGACATTACATCCACTTATAGCAGCCTG



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CTCCGGTACACCTGTGGGTCATCTGTGGAAGCCACCAGGGCTGTTATGAAGCACCTCGCAGCAGTGTATC  
AACACGGCTGCCTTCTCGGACTTCCATCGCCAAGAGGCCTCTCTGGAGACAGGAATCTTTGCAAAGTGT  
GAAAAACACCACTGAGCAAGAAATCTGAAAGCCATAAACATCAATTCCTTTGTAGAGTGTGGCATTCCAT  
TTATATCAAGAGAGTACATCCAATCAGCCCTGAGCCAAGAATTTGAAGCTTTCTTTCAAGGTAAAAAGCT  
TATATCAACTCAGGGAACATCCCCGATTACTTATTTGACTTCTTTGAACATTTGCCAATTGTGCAAG  
TGCCCTGGACTTCATTAACCTGGACTTTTATGGGGGAGCTATGGCTTCATGGGAAAAGGCTGCAGAAGAC  
ACAGGTGGAATCCACATGGAAGAGGCCCCAGAAACCTACATCCCAGCAGGGCTGTATCTTTGTTCTTCA  
ACTGGAAGCAGGAATTCAGGACTCTGGAGGTCACACTCCGGGATTTTCAGCAAGTTGAATAAGCAAGATAT  
CAGATATCTGGGAAAAATATTCAGCTCTGCCACAAGCCTCAGGCTGCAAAATAAGAGATGTGCTGGTGTG  
GCTGGAAGCCTCAGTTTGGTCTCAGCACCTGTAAGAACATTTATTCTCTCATGGTGAAGCCAGTCCCC  
TCACCATAGAAGATGAGAGGCACATCACATCTGTAACAAACCTGAAAACCTTGAGTATTCATGACCTACA  
GAATCAACGGCTGCCGGTGGTCTGACTGACAGCTTGGTAACCTGAAGAACCTTACAAAGCTCATAATG  
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GCTCAGAATCTTCAAAATTTGGTCAAACCTGAGCATTCTTGATTTATCAGAAAATACCTGAAAAAGATG  
GAAATGAAGCTCTTCATGAACTGATCGACAGGATGAACGTGCTAGAACAGCTCACCAGCTGATGCTGCC  
CTGGGGCTGTGACGTGCAAGGCAGCCTGAGCAGCCTGTTGAAACATTTGGAGGAGGTCCCAACTCGTC  
AAGCTTGGGTGAAAACTGGAGACTCACAGATACAGAGATTAGAATTTTAGGTGCATTTTTTGGAAAGA  
ACCCTCTGAAAACTTCCAGCAGTTGAATTTGGCGGAAATCGTGTGAGCAGTGTGGATGGCTTGCCCT  
CATGGGTGATTTGAGAACTTAAGCAATTAGTGTTTTTGACTTTAGTACTAAGAATTTCTACCTGAT  
CCAGCATTAGTCAGAAAACCTAGCCAAGTGTATCCAAGTTAACTTTTCTGCAAGAAGCTAGGCTTGTG  
GGTGGCAATTTGATGATGATGATCTCAGTGTATTACAGGTGCTTTTAACTAGTAACTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206757 representing NM\_021209  
Red=Cloning site Green=Tags(s)

MNFIKDNSRALIQRMGMTVIKQITDDL FVWVNLNREEVNIICCEKVEQDAARGIIHMILKKGSESCNLF  
KSLKEWNYPLFQDLNGQSLFHQTSEGLDDLAQDLKDLYHTPSFLNFYPLGEDIDIIFNLKSTFTEPVLW  
RKDQHHRVEQLTLNGLLQALQSPCIEGESGKGKSTLLQRIAMLWGSCKALTKFKFVFFLRLSRAQG  
GLFETLCDQLLDIPGTIRKQTFMAMLLKLRQVLFLLDGYNEFKPQNCPEIEALIKENHRFKNMVIVTTT  
TECLRHIRQFGALTAEVGDMTEDSAQALIREVL IKELAEGLLLQIQKSRCLRNLKMTPLFVVITCAIQMG  
ESEFHSHQTTLFHTFYDLLIQKNKHKHKGVAASDFIRSLDHCGDLAEGVFSHKFDFELQDVSSVNEVD  
LLTTGLLCKYTAQRFKPKYKFFHKSFQEYTAGRRLSLLTSHEPEEVTKNGYLQKMVSI SDITSTYSSL  
LRYTCGSSVEATRAVMKHLAAVYQHGLLGLSIKRPLWRQESLQSVKNTTEQEILKAININSFVECGIH  
LYQESTSKSALSQEF EAFQGKSLYINSGNIPDYLFDFEHL PNCASALDFIKLDFYGGAMASWEKAAED  
TGGIHMEAPETYIPSRVSLFFNWKQEFRTLEVTLRDFSKLNKQDIRYLGKIFSSATSLRLQIKRCAGV  
AGSLSLVLSTCKNIYSLMVEASPLTIEDERHITSVTNLKTL SIHDLQNQLRPGGLTDSLGNLKNLTKLIM  
DNIKMNEEDA IKLAEGLKNLKKMCLFHLTHLSDIGEGMDYIVKSLSSEPDL EEQIQLVSCCLSANAVKIL  
AQNHLNLVKLSILDLSENYLEKDGNEALHELIDRMNVLEQLTALMLPWGCDVQGSLSLLKHL EEPQLV  
KLGLKNWRLTDTEIRILGAFFGKNPLKNFQQLNLAGNRVSSDGWLAFMGVFENLQLVFFDFSTKEFLPD  
PALVRKLSQVLSKLTFLQEARLVGWQFDDDDL SVITGAFKLVTA

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_021209

**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:**

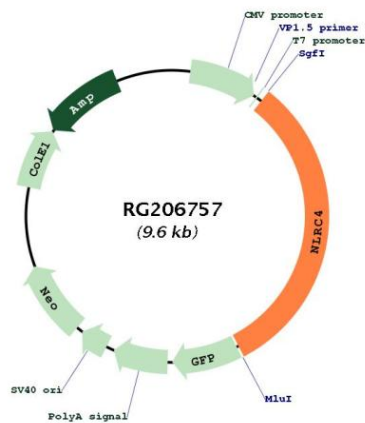
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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\\_021209.4](#)

**RefSeq Size:** 3384 bp

RefSeq ORF:	3075 bp
Locus ID:	58484
UniProt ID:	<a href="#">Q9NPP4</a>
Cytogenetics:	2p22.3
Domains:	LRR
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]

### Product images:



Circular map for RG206757