

## Product datasheet for **RC210848**

### **CARD6 (NM\_032587) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CARD6 (NM_032587) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CARD6
Synonyms:	CINCIN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210848 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTACCGAGAGTACTCCCTCAGAGATCATAGAAAGAGAAAGAAAAAGTTGCTTGAATCCTTCAAC  
ATGATCCTGATTCTATCTTAGACACGTTAACTTCTCGGAGGCTGATTTCTGAGGAAGAGTATGAGACTCT  
GGAGAATGTTACAGATCTCCTGAAGAAAAGTCGGAAGCTGTTAATTTTGGTACAGAAAAGGGAGAGGCG  
ACCTGTCAGCATTTTCTCAAGTGTATTTAGTACTTTTCCACAGTCAGCTGCCATTTGCGGCTTAAGGC  
ATGAAGTTTTAAACATGAGAATACAGTACCTCCTCAATCTATGGGGCAAGCAGTAATTCAGAAGATGC  
TTTTTCTCCTGGAATAAAACAGCCTGAAGCCCCTGAGATCACAGTGTCTTCAGTGAGAAGGAACACTTG  
GATTTGGAAACCTCTGAGTTTTTCAGGGACAAGAAAAGTATAGGGAAACAGCTTTGTCTGCCAGGA  
AGAATGAGAAGGAATATGACACACCAGAAGTCACATTATCATATTCAGTTGAGAAAGTTGGATGTGAAGT  
TCCAGCAACTATTACATATATAAAAGATGGACAGAGATATGAGGAGCTAGATGATCTTTTAACTTAGGA  
AAAGAGGAATATCTAGGATCTGTTGACACCCCTGAAGATGCAGAAGCCACTGTGGAAGAGGAGGTTTATG  
ATGACCCAGAGCACGTTGGATATGATGGTGAAGAGGACTTCGAGAATTCAGAAACCACAGAGTCTCTGG  
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GATGAAGATAGCAAGGAGGATTTGCTGGCTGGAGTGGAGAATTTGGAAATTCGAGACATACAAACCATTA  
ATCCCCTTGACGTGCTTTGTGCCACCATGCTGTGTTTCCAGATAGCTCTTTGCAACGCCAAGTCATGTCAA  
CATGTATCAGTGCCAGTTTGCTCTTCCCCTGCTACTGCCAGATGCAGAAAACAACAAAAGCATCTTAATG  
CTGGGGGCCATGAAAGACATTGTGAAGAAGCAGTCAACACAGTTTTCAGGGGGCCCTACAGAGGATACAG  
AAAAGTTTCTGACTCTCATGAAGATGCCTGTCTCTTTTGTGCGTCTAGGATACTGTAGCTTCTCTAA  
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TTGCCTCTTTGGTGCTTCCCCGCAAATCTCTGATGGCCTGGTTGAGATAACATGGTGTTCCTGATA
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AAGCTTTTGGACTCAGTTTGGTTTTTATGGAAGTTTCTTCAGCTGTGTTTTTTTCACTGACTGTTTA
GGTGAGAAGGAATGGGACTTGCTAATGTTTTTAGGAGAGGCTGCCATTGAAAGATGCTACTTTGTCTCA
GTTCCCAAGCCAGGGAGAGTGAAGAGGCTCAAATTTTTTCAGAGGATACTGAACTGAAGCCAGCACAGCT
ACTGTTTTGGGAGAGGGGAGATGCTGGGATAGAAGGAAGAACATGGAGGGCCTCAAGCTGCCCTCCAG
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CCAATTCAAGAGCCTGGGACTCAATGTGAGCTCAGCCAGAATCTCAGAATCTCTATGGTACCCAGTAT
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ACTGCCAAGACCATTTGTCAGCATGTACAGCCCTGCCCTGAGAGACCACAAATGATGGGAACTCTTGAA
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GGAAGCCATGGCCTCAGCAAGCTTGCAACAGGGTAACAGAGTTAACTGAAGCAACTGGAAAACTGATAAG
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GCTTCTCAGCAAGGAGTCCAGATGAAGACACAAGTGGGGCTTCAAATCCAGCTCTCAAATAGGGTCCC
ATCCCATGTGCAAGAGCTCTCAGTTCAAATCCGATCAGTCCAACCATCCACAGTCAAACACTCCCAGCC
TAAACCTTCCATTCTGTGCCCTCTCAACCTAAATCCTCTCAGACAAAATCCTGTGAGTCCCAGCCCTCC
CAAATAAACCTTCTCCATGCAAATCTACTCAGCCTAAGCCAAGCCAGCCCTGGCTCCCAGTCTAAGC
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AAAAGCAGGGCAGAAGAGGGGAGGGAAGCAT
    
```

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
```

**Protein Sequence:**

>RC210848 protein sequence  
 Red=Cloning site Green=Tags(s)

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MATESTPSEIIERERKLLLEILQHDPDSILDTLTSRRLISEEYETLENTDLLKSRKLLILVQKGEA
TCQHFLKCLFSTFPQSAAICGLRHEVLKHENTVPPQSMGASSNSEDASFPGIKQPEAPEITVFFSEKEHL
DLETSEFFRDKTSYRETALSARKNEKEYDTPEVTL SYSVEKVGCEVPATITYIKDGQRYEELDDSLYLG
KEEYLGSDVDPEDAATVEEEVYDDPEHVGVDGEEDFENSETTEFSGEEPSYEGSETSLSEEEQEKISIE
ERKKVFKDVLCLNMDRSRKVLPDFVKQFSLDRGCKWTPESPGDLAWNFLMKVQARDVTARDSILSHKVL
DEDSKEDLLAGVENLEIRDIQTINPLDVL CATMLCSDSSLQRQVMSNMYQCQFALPLLLPDAENNKSI
LGAMKDIVKKQSTQFSGGPTEDTEKFL TLMKMPVISFVRLGYCSFSKSRILNTLLSPAQLKHKIFLHQD
LPLLVLPRQISDGLVEITWCFPDSDDRKENPFFQKPVALANLRGNLESFWTQFGFLMEVSSAVFFF TDCL
GEKEWDLMLFLGEAAIERCYFVYLSSQARESEEAQIFQRI LNLKPAQLLFWERGDAGDRRKNMEGLQAA
LQ EVMFSSCLRVCVSDMAALARELGIQVDEDFENTQRIQVSSGENMAGTAE GEGQQRHSQKSSSKSQALM
PIQEPGTQCELSQNLQNL YGTPVFRPVLENSWLFPTTRIGGNFNHVSLKASWVMGRPF GSEQRPKWFHPLP
FQNAGAQRGKSFQIFYSGERFMKFSRVARGCHSNGTFGR LPRPICQHVQACPERPQMMGTLE
RSRAVASKIGHYSYSLDSQPARAVGKWPWQQACTRVTEL TEATGKLIRTSHIGKPHPQSFQPAATQKLRP
ASQQGVQMKTQGGASNPALQIGSHPMCKSSQFKSDQSNPSTVKHSQPKPFH SVSPQPKSSQTKSCQSQPS
QTKPSPCKSTQPKPSQPWPPQSKPSQPRPPQPKSSSTNPSQAKAHHSKAGQKRGGKH
    
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
    
```

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6680\\_d02.zip](https://cdn.origene.com/chromatograms/mk6680_d02.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_032587

**ORF Size:** 3111 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\\_032587.4](#)

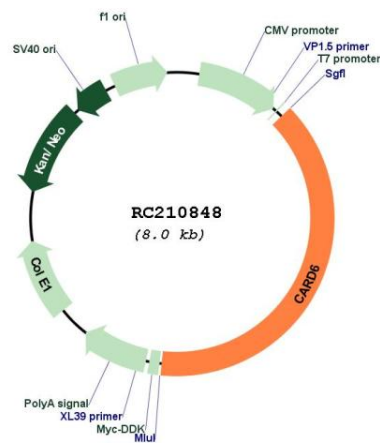
**RefSeq Size:** 4097 bp

**RefSeq ORF:** 3114 bp

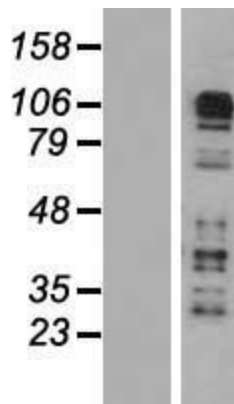
**Locus ID:** 84674

**UniProt ID:** [Q9BX69](#)

**Cytogenetics:** 5p13.1  
**Protein Families:** Druggable Genome  
**Protein Pathways:** NOD-like receptor signaling pathway  
**MW:** 116.5 kDa  
**Gene Summary:** This gene encodes a protein that contains a caspase recruitment domain (CARD), an antiparallel six-helical bundle that mediates homotypic protein-protein interactions. The encoded protein is a microtubule-associated protein that has been shown to interact with receptor-interacting protein kinases and positively modulate signal transduction pathways converging on activation of the inducible transcription factor NF- $\kappa$ B. [provided by RefSeq, Jul 2008]

**Product images:**


Circular map for RC210848



Western blot validation of overexpression lysate (Cat# [LY410018]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210848 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).