

Product datasheet for **SC118775**

CARD12 (NLRC4) (NM_021209) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD12 (NLRC4) (NM_021209) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARD12
Synonyms:	AIFEC; CARD12; CLAN; CLAN1; CLANA; CLANB; CLANC; CLAND; CLR2.1; FCAS4; IPAF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_021209, the custom clone sequence may differ by one or more nucleotides

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ATGAATTTCAAAGGACAATAGCCGAGCCCTTATTCAAAGAATGGGAATGACTGTTATAAAGCAAATCA
CAGATGACCTATTTGTATGGAATGTTCTGAATCGCGAAGAAGTAAACATCATTGCTGCGAGAAGGTGGA
GCAGGATGCTGCTAGAGGGATCATTACATGATTTTAAAAAGGGTTCAGAGTCTGTAACCTTTCTT
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TTATCCCCTTGGTGAAGATATTGACATTATTTTTAACTTGAAAAGCACCTTACAGAACCTGTCCTGTGG
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ACTGAGTGCTGAGGCACATACGGCAGTTTGGTGCCTGACTGCTGAGGTGGGGGATATGACAGAAGACA
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GGTGGCAATTTGATGATGATGATCTCAGTGTATTACAGGTGCTTTTAACTAGTAACTGCTTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021209 unedited
 CCCCggccncncCAAACCNCNNNNNNNNNNNNNNCNCccccGGTTCAAATTTGTATAC
 GATCATATAGGGCGGCCGGAATTCGCACCANAAGCCCCGGCTGTTTATACTCCGGAGG
 GTGTCCCCGTGCGTCATCGGTGGAGTGGACAAAACCTGGTGATCTGTTTGCCTGTGTGA
 CCTTGCCAGAACCTGCTGACTGAGAGAACACATCTGCTGGAAGTCTCTGGGATTCAA
 GGTACAGGAATGAAGAGTAGTTTTACAGAAAAAGAGGACAATATTGGGATCACCTTTG
 ACCTTTCCATTTGGAAATAATATTTTCTATTGTGTTATAGAAAGGTGGGAAGCTTTCATC
 CAGAACAATGAATTTTCAATAAGGACAATAGCCGAGCCCTTATTCAAAGAATGGGAATGAC
 TGTATAAAGCAAATCACAGATGACCTATTTGTATGGAATGTTCTGAATCGCGAAGAAGT
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 TTTGAAAAGGGTTCAGAGTCTGTAACTCTTTCTANATCCCTAAGGAGTGGAACTA
 TCCTCTATTTCAGGACTGAATGGACAAAGTCTTTTTCATCAGACATCAGAAAGAGACTT
 GGACGATTTGGCTCANGATTTAAAGGACTGTACCATACCCCATCTTTTCTGAACTTTAT
 CCNCTTGGTGAAGATATTGACATTATTTTTACTTGAAAAGCACCTCACAGAACCTGTCC
 TGTGGAAGAAGGACCAACACCATCACCGGTGGAGCAGCTGACCCTGAATGGCCTNCTGC
 NAGCTTTTCAGAGCCCTGCATCATTTGAGGGGATCTGGGAAAAGCCAATCCACTGTCT
 GCACCGCATTGCCATGCTCTGGGCTTCCGAAAGTCAAGGCTTTGACAAGTTCAAATCG
 CTTTCTCCTCCGTCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_021209 unedited
 NAGCCTCTATTGGCGATGGTCATCTTCCAGGACNAGGGTAAGAGCACTGGAGGAAGGGG
 CTCACAGGGCATGCCACCCGGTTCTGTTCAGGAAACAGCTATGACCGCGCCGCAATCT
 ATAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTGGGCTTCGAGTACACTTTATTTAAGCA
 GTTTCTAGTTTAAAAGCACCTGTAATAACACTGATATCATTATTATCAAATTGCCACCCA
 ACAAGCCTAGCTTCTTGCAGAAAAGTAACTTGGATAACACTTGGCTAAGTTTTCTGACT
 AATGCTGGATCAGGTAATAATCTTTAGTACTAAAGTCAAAAAACACTAATTGCTTAAGA
 TTCTCAAATACCCCATGAAGGCAAGCCATCCATCACTGCTCACACGATTTCCCGCCAAA
 TTCAACTGCTGGAAGTTTTTCAGAGGGTCTTTTCAAAAAATGCACCTAAAATTCTAATC
 TCTGTATCTGTGAGTCTCCAGTTTTTCAACCAAGCTTGACGAGTTGTGGGACCTCCTCC
 AAATGTTTTCAACAGGCTGCTCAAGCTGCCTTGCACGTCACAGCCCCAGGGCAGCATCAGT
 GCGGTGAGCTGTTCTAGCACGTTTCACTCCTGTCGATCAGTTCATGAAGAGCTTCATTTCCA
 TTTTTTCCAGGTAATTTCTGATAAATCAAGAATGCTCAGTTTGACCAAATTGTGAAGA
 TTCTGAGCTAGGATTTTCACTGCTTTTGCAGACAAGCAGCAAGAGACTAATTGAATTTCT
 TCAAAGTCACAGGGTTCACTTGACAGAGACTTGACTATGTAATCCATTCCCTCTCCAATG
 TCAGACAAGTGGGTCAAATGAATAAACACATCTTCTTCAGTTTTTCAAGCCTTCACCTA
 NTTTTATAGCACCTCCTCATTTCATCTTGATGTATCCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_021209

Insert Size:

3500 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_021209.3](#), [NP_067032.3](#)

RefSeq Size: 3384 bp

RefSeq ORF: 3075 bp

Locus ID: 58484

UniProt ID: [Q9NPP4](#)

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]
Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.