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Product datasheet for SC101447

CARD10 (NM_014550) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARD10 (NM_014550) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARD10
Synonyms:	BIMP1; CARMA3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_014550 edited
GAATTCGGCACGAGGGGGAGCCCGAGGCGACTGTAGCGTGCGGGACCCTGAGGACACGGC
CATGCCGGGCCGGGCGGAGGCGGGGGAGGCCGAGGAGGAGGCCGGGGCCGGCTCGGGGTC
TGAGGCGGAGGAGGACGCGCTGTGGGAGCGAATCGAGGGCGTCCGGCATCGGCTGGCTCG
CGCCCTGAACCCGGCCAAGCTCACGCCGTATCTGCGCCAGTGCCGGGTCATCGACGAGCA
GGACGAGGAGGAGGTGCTGAGCACCTACCGCTTCCCGTGCCGCGTCAACCGCACCGGGCG
CCTGATGGACATCTTGCGCTGCCGTGGCAAGAGGGGCTATGAGGCCTTCCTGGAAGCCCT
GGAGTTCTACTACCCCGAACACTTCACGCTGCTCACGGGCCAGGAACCCGCCCAGCGCTG
CTCCATGATCCTCGATGAGGAGGGGCCTGAGGGCCTGACCCAATTCTTGATGACAGAGGT
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CAAGGCCTGTGCCTCCTCCCATTCCCTGTGCTCCAACCTCAGCAGCACTTGGAGCCTGAG
CGAGTTCCCCTCCCCTCTGGGAGGCCCAGAAGCAACTGGGGAGGCAGCTGTCATGGGGGG

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ACCTGAGCCTCACAACTCGGAGGAAGCCACAGACAGTGAAAAGGAGATCAATCGGCTCTC
CATCCTGCCCTTCCCCCCCAGTGCCGGCTCCATCCTCCGCCGGCAGCGTGAGGAAGACCC
CGCACCCCCTAAGAGATCCTTCAGCAGCATGTCAGACATCACAGGGAGTGTGACACTTAA
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AGCTCGCGCTCCTCGTGGATTCAGCCATGCATGGACTGGGGTGTTCCCTGGCCCATGGTC
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CGCCCCACCCCTGTTTCATGTGGGCACTAACACGTGTGCGTTCCTGGCGGGCACACTCAG
GACCGTGCCTCACAGGGCCCACTCCCTGCCTATGCCTCCCTCTTGGGGGGCCGAGGAGGG
CGGCTGCTCTGTCATGAGAATGTACGGCCCGTGGATGATTAACGGGCCTTTTTCACTTAG
AAGCTGCACATTATGGAGCATTAAACACTTTTGTCATAAAAAAAAAAAAAAAAAACTCGA
C

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014550 unedited
ACCCCGCCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTACTATAAGCA
GAGGCTCACGTTAGGTGACACTACGAGAGTACAAGCTACTTGTTCTTTTTGCAGCGGCCG
CGAATTCGGCACGAGGGGGAAGCCCGAGGCGACTGTAGCGTGCGGGACCCTGAGGACACG
GCCATGCCGGGCCGGGCGGAGGCGGGGGAGGCCGAGGAGGAGGCCGGGGCCGGCTCGGGG
TCTGAGGCGGAGGAGGACGCGCTGTGGGAGCGAATCGAGGGCGTCCGGCATCGGCTGGCT
CGCGCCCTGAACCCGGCCAAGCTCACGCCGTATCTGCGCCAGTGCCGGGTCATCGACGAG
CAGGACGAGGAGGAGGTGCTGAGCACCTACCGCTTCCCGTGCCGCGTCAACCGCACCGGG
CGCCTGATGGACATCTTGCGCTGCCGTGGCAAGAGGGGCTATGAGGCCTTCCTGGAAGCC
CTGGAGTTCTACTACCCCGAACACTTCACGCTGCTCACGGGCCAGGAACCCGCCCAGCGC
TGCTCCATGATCCTCGATGAGGAGGGGCCTGAGGGCCTGACCCAATTCTTGATGACAGAG
GTGCGACGGCTGCGGGAAGCTCGCAAGAGCCAGCTGCAGCGGGAGCAGCAACTGCAGGCC
CGGGGCCGGGTGCTCGAGGAGGAGCGGGCAGGGCTGGAGCAACGGCTGCGGAACAGCAGC
AGGCTCAGGAGCGCTGNCACGGCTGCGGGAGGACTGGGAGGCNGGCAACCTGGAGCTGCT
GGCGNTCAAGATGAGAACTCATGATCCCCATGCGCCTGGACAGGTCAGTGAGAAAGAACT
CGGTTTACTTNNANNCCTNACCTCAGCTGGCGGGGGATAAGTTAGCTCAAGTAAATTCGT
GGAGGAAAAGTTCACATGTTTNAAAGNCAAGGGCTCCTCCCTTGGTTAAGAANAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014550 unedited
GGTACTAGCTATGNNACCGCGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTAT
GACAAAAGTGTTTAATGCTCCATAATGTGCAGCTTCTAAGTGAAAAAGCCCGTTAATCAT
CCACGGGCCGTACATTCTCATGACAGAGCAGCCGCCCTCCTCGGCCCCCCAAGAGGGAGG
CATAGGCAGGGAGTGGGCCCTGTGAGGCACGGTCCTGAGTGTGCCCGCCAGGAACGCACA
CGTGTTAGTGCCCACATGAAACAGGGGTGGGGCGTGACATTTACACAGGAGAGAACCACA
GACACCCATGTGAGGAGACACGAGGGGCACAGGTGACCATGGGCCAGGGAACACCCCAGT
CCATGCATGGCTGAATCCACGAGGAGCGCGAGCTGGATGGTGGGAGTCACGCGGTAACGG
GCTCAGGTCTCCTAGGAGCAAAACAGGCCCAGGTCCTCACGAGACCTCGTGCCCCAGGCA
GCGGGACAGACCTGAGCCTGCCCATGAGAACTTGAGTGTGCAAACCTGCGCACAGGTGTG
AGAACAGACTCCAGGGCGAGTGTTTAAGGAGGAGACACAGACACCCATTAGACCCACTAG
GGGGAATGTGGAGACCCCAGGAAAGGGGGGGGGGCCCACAACAACCAGTTAAGGGGAGTG
GGGACTCTGTTCCCGGGGCTCCATTAGGCTCGGCAGGGCCAAAAACCACCTTGGGGGGGA
GAGGGCCAAAACCCAAGGCCCCGTCTCTTAGAATTCCAGGGTTTAGAAAGGCCTCGGGGG
GGAGGGCCCACCTTCCCATAAACCCAGGGTCCACCCGGCTTGGGAAAAGAGGCNGTATTA
AAAAAACTCCAGGCCCCTTGGGTGTGGGGGGACCCCTGTGGTGCCGCCCTCCCCCCCCAG
AGG

Restriction Sites: NotI-NotI

ACCN: NM_014550

Insert Size: 3650 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_014550.3, NP_055365.2

RefSeq Size: 3912 bp

RefSeq ORF: 3099 bp

Locus ID: 29775

UniProt ID: Q9BWT7

Cytogenetics: 22q13.1

Gene Summary: The caspase recruitment domain (CARD) is a protein module that consists of 6 or 7 antiparallel alpha helices. It participates in apoptosis signaling through highly specific protein-protein homophilic interactions. Like several other CARD proteins, CARD10 belongs to the membrane-associated guanylate kinase (MAGUK) family and activates NF-kappa-B (NFKB; see MIM 164011) through BCL10 (MIM 603517) (Wang et al., 2001 [PubMed 11259443]).[supplied by OMIM, Mar 2008]