

Product datasheet for **RG217652**

CARD10 (NM_014550) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CARD10 (NM_014550) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CARD10
Synonyms: BIMP1; CARMA3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217652 representing NM_014550
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGGCCGGGCGGAGGCCGGGGAGGCCGAGGAGGAGGCCGGGGCCGGCTCGGGTCTGAGGCCGAGG
 AGGACGCGCTGTGGGAGCGAATCGAGGGCGTCCGGCATCGGCTGGCTCGCGCCCTGAACCCGGCCAAAGCT
 CACGCCGATCTGCGCCAGTGCCGGTTCATCGACGAGCAGGACGAGGAGGAGGTGCTGAGCACCTACCGC
 TTCCCGTCCCGCTCAACCGCACCGGGCCCTGATGGACATCTTGCCTGCCGTGGAAGAGGGGCTATG
 AGGCTTCTGGAAGCCCTGGAGTTCTACTACCCGAACACTTACGCTGCTCACGGCCAGGAACCCGC
 CCAGCGCTGCTCCATGATCCTCGATGAGGAGGGCCCTGAGGGCCTGACCCAATTCTTGATGACAGAGGTG
 CGACGGCTGCGGGAAGCTCGCAAGAGCCAGCTGCAGCGGAGCAGCAACTGCAGGCCCGGGCCGGGTGC
 TCGAGGAGGAGCGGGCAGGGCTGGAGCAGCGGCTGCGGGACCAGCAGCAGGCTCAGGAGCGCTGTCAACG
 GCTGCGGGAGGACTGGGAGGCCGGCAGCCTGGAGCTGCTGCGGCTCAAGGATGAGAACTACATGATCGCC
 ATGCGCTGGCACAGCTCAGTGAGGAGAAGAACTCGGCTGTACTTCGACGCGTGACCTGCAGCTGGCGG
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 GCCCCTGGGGCAGAGGAGAAGGAGAAGGAGAAGGAGAAGGAGGAGCCAGACAATGTGGACCTTGTC
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 GGCGCAGGACAGCAGGAGGAGCTGTGCCAGAAGCTGCATGCCGTGCAGGGGAGCTGCAGTGGGCCGAG
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 GTGACCTGTACAAGCACCGCATGGCCACTGTCTGGCCAACTGGAGGAGATTGAGAAGGAGCGAGACCA
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 AGGCTCTGCTGGAGTTAGCTGCAGCGGGCCAGGGTGGCACCTGCCTCAAGCCCTGTGCCTCTCCCA
 TTCCTGTGCTCAACCTCAGCAGCACTGGAGCTGAGCGAGTCCCCTCCCCTCTGGGAGGCCAGAA



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GCAACTGGGAGGCAGCTGTCATGGGGGACCTGAGCCTCACAACCTCGGAGGAAGCCACAGACAGTGA
 AGGAGATCAATCGGCTCTCCATCCTGCCCTTCCCCCAGTGCCGGCTCCATCCTCCGCCGAGCGTGA
 GGAAGACCCCGCACCCCTAAGAGATCCTTCAGCAGCATGTCAGACATCACAGGGAGTGTGACACTTAAG
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 GGACCAGGTGCCGAGCCCTTCTACATTCGTGCCAACCTCACCTTGCTGAGAGGGCAGATCCCCATGCC
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 CACCCGGGTTGACCCCTCACTCTGCGGGACCTGGACCGGGCACCGTCCCAATTATCAGAGAGCCAG
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 TCAGCTGCTGCTGGAGCCCTGTGCAGAGCCGAGCGGAGCCTCAGACCCTACAGTTTGGTGGCCGCTA
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 GCTGGGCCGCGGGGCTGGCGGGACTCAGAGCTGCTGCGCAGTCCGCTGGCTCAGAGCAGGTGCTCTGG
 GGGCTGCCCTGCTCTGGTGCAGGTGCCGCCATGAGTGGGGACACGAGAGGAGCTGGCCAAGTGG
 TGCCGGCCGCATCCTGCAGGAGCAGGCCCGCCTCGTGTGGTGGAGTCCGCGCAGCAGCAGAGGCTGCC
 CAGCAGCAGTGAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217652 representing NM_014550
 Red=Cloning site Green=Tags(s)

MPGRAEAGEAEEEEAGAGSGSEAEEDALWERIEGVRHRLARALNPAKLTPYLRQCRVIDEQDEEEVLSTYR
 FPCRNVNRTGRMLDILRCRGRGYEAFLEALEFYYPEHFTLLTGQEPARQCSMILDEEGPEGLTQFLMTEV
 RRLREARKSQLQREQLQARGRVLEERAGLEQRLRDQQQAQERCQRLREDWEAGSLELLRLKDENYMIA
 MRLAQLSEEKNSAVLRSRDLQLAVDQLKLVSRLEEECALLRRARGPPPGAEKEKEKEKEKEPNVDLV
 SELRAENQRLTASLRELQEQEASRPGAPGSERILLDILEHDWREAQDSRQELCQKLHAVQGELQWAE
 ELRDQYLQEMEDLRLKHRTLQKDCDLYKHRMATVLAQLEEIEKERDQAIQSRDRIQLQYSQSLIEKDQYR
 KQVRGLEAERDELLTTLTSLGKALLEVQLQRAQGGTCLKACASSHSLCSNLSSTWSLSEFPSPGGPE
 ATGEEAAMGGPEPHNSEATDSEKEINRLSILPFPPSAGSILRRQREEDPAPPKRSFSSMSDITGSVTLK
 PWSPGLSSSSSDSVWPLGKPEGLLARGCGLDFLNRSLAIRVSGRSPGGPEPQDKGPDGLSFYGDWRWSG
 AVVRRVLSGPGSARMEPREQRVEAAGLEGACLEAEAQQRTLLWNQGSTLPSLMDSKACQSFHEALEAWAK
 GPGAEPFYIRANLTLPERADPHALCVKAQEILRLVDSAYKRRQEWFCRVDPLTLRDLDRGTVPNYQRAQ
 QLLEVEQEKCLPSSRHRGPRSNLKKRALDQLRLVRPKPVGAPAGDSPDQLLLEPCAEPERSLRPYSLVRPL
 LVSALRPVLLPECLAPRLIRNLLDLPSSRLDFVQCPAESLSGEELCPSSAPGAPKAQPATPGLGSRIRA
 IQESVGGKHLLELGARGVRELVQNEIYPIVIHVEVTEKNVREVRGLLRPGWRDSELLRQCRGSEQVLW
 GLPCSWVQVPAHEWGHAEELAKVVRGRILQEQARLVWVECGSSRGCPSSEA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_014550.4](#)

RefSeq Size: 3912 bp

RefSeq ORF: 3099 bp

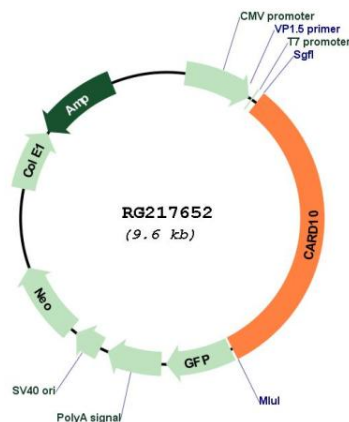
Locus ID: 29775

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]

Product images:



Circular map for RG217652