

Product datasheet for RC217662

RLTPR (CARMIL2) (NM_001013838) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RLTPR (CARMIL2) (NM_001013838) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CARMIL2
Synonyms:	CARMIL2b; IMD58; LRRC16C; RLTPR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC217662 representing NM_001013838 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCCAGACCCCGACGGCATCTCCTGTGAGCTCCGAGGCGAGATCACCAGGTTCTGTGGCCAAAG
AGGTGGAGCTGCTGCTGAAAACCTGGCTACCCGGGGAGGGTGTGTGCAAAACCATGTCTGGCACTGCT
ACGATGGAGAGCCTACCTGCTGCACACCACCTGCCTCCCGCTGAGGGTGGACTGCACGTTACGTACCTG
GAGGTCCAGGCCATGGCGCTGCAGGAGACACCCCTCAGGTACCTTTGAGCTGGAGTCCCTGCGTGAGC
TGGTCTGGAGTTTCTGGTGTGGCCGCTGGAACAGCTGGCCAGCACGTGGCTGCAGCCATCAAGAA
GGTCTTCCCTCGCTCGACCCCTGGGAAGCTATCCGGAGGCCACACCAGCCTCCATGCTGGCTCGGCTG
GAGAGAAGCAGCCCTCGGAGTCCACTGACCCCTGCAGCCCTGTGGTGGCTTCTGGAGACATACGAGG
CTCTGTGTGACTACAATGGCTTCCCTTCCGAGAGGAGATTAGTGGGACGTGGACACCATTTACCATCG
CCAGGGCTGCCGCCATTTAGCCTGGGAGACTTCAGCCACCTCGGCAGTCGGGACCTGGCCTTGAGTGTG
GCTGCCCTGTCTACAACCTGTGGTCCGGTGCCTCCTGTGTGGACATGAAGCTGAGCCTTGAGGTCT
CAGAACAGATTCTGCACATGATGATGATCAGTCATCACACCTGGAGGAGCTGGTGTGGAGCTGCAGCCT
GAGGGGAGACTTTGTCCGACGACTGGCCAGGCGCTGGCCGGGACTCAAGCTCTGGGCTCGGGGAGCTC
AGCCTCGCGGGGAACCTGCTGGATGACCGAGGCATGACTGCACTCAGCAGACACCTCGAGCGTTGTCCAG
GAGCCCTGAGGAGACTAGCCTGGCCAGACAGGGTTGACACCGCGAGGAATGAGGGCTCTGGCCGGGC
ACTGGCCACCAATGCCGCTTCCGACTCCACCCTGACCCACCTGGACCTTCTGGGAATCTGGGGCGCTG
GGGGCCTCCGAGGACAGTGGGGCCTCTATAGCTTCTGAGCCGTCTAACGTAAGTGTGCTTCTGAATC
TCGAGGCACCGACTGCCCTGGACACTGTGAGGGGTGCTCCGTGGGGGATGGATGACCGGCAGGGC
GGACTGGAGGGCGGGACGGGAGGGCTCGGTCCCCCGGGGTAGCCAACAGCCTCCCCCGCAGCTC
TTCGACGGGTATCCCGAGGCTGCTGCACAGCCTTACCACCTCGACGCTTCGAGGAACGCTTCTCCC
GCACGAAGTCCCAGCGCCGCGCCGCGCTGCAGCTTCTCAGCCGCGCGGACGCTGCGGCACCT
GGGCTGGCGGGCTGCAAGCTGCCGCGCCGACGCGCTCAGAGCCCTTTGGATGGCCTCGCGCTCAACAGC
CACCTCCGCGACCTGCACCTGGACCTCAGCGCTTGCAGCTGCGCTCGGCCGGCGCCAGGTGATACAAG



[View online »](#)

ACTTAGTGTGCGACGCAGGCGCTGTGAGCTCCCTGGATCTGGCGGATAACGGCTTCGGCTCAGACATGGT
GACTCTGGTGCTGGCCATCGGGAGAAGCCGGTCCCTGAGACATGTGGCGCTTGAAGGAACCTCAACGTC
CGGTGCAAGGAGACCCTGGACGACGTCCTGCACCGGATTGTCCAGCTCATGCAGGACGACGATTGCCTC
TTCAGTCTCTGTGCGTGGCTGAGTCTCGGCTGAAGCTGGGTGCCAGCGTCTACTCCGGGCCATAGCCAC
CAATCCTAACCTGACCGCGCTGGATATCAGCGGCAACGCCATGGGGACGCGGGCCCAAGTTGCTGGCC
AAGGCGCTGCGGGTCAACTCGAGGCTCCGGTCTGTGGTCTGGGACCGGAACCACACATCTGCTTTGGGTC
TGCTGGAGCTGGCGCAGGCGCTGGAGCAGAACCACAGCCTGAAGGCCATGCCTCTGCCACTGAACGACGT
GGCCAGGCGCAGCGCAGCCGCCGGAAGTACAGCACGTCAGTCCATCAGATCCAAGCCTGTCTCTTG
AGGAACAACCGCGCAGACCCTGCCTCTTCTGACCACACGACCCGCTTCAGCCACTTGGTCTGGTCTCAG
ACCCCTCAGAGCAGGAAGTGAATGAATTGTGTCAGTCCGTGCAGGAGCATGTGGAGCTGCTGGGCTGTGG
GGCTGGGCCCCAGGGTGAAGCCGCTGTGCGCCAGGCCGAGGATGCCATCCAAAATGCCAACTTCTCTCTC
AGCATTCTCCCCATTCTATGAAGCTGGAAGCTCCCCAAGCCATCACTGGCAGCTTGGGCAGAAGCTGG
AGGGCCTTCTGAGACAGGTGGGCGAGGTCTGCCGCCAGGACATCCAGGACTTCACTAGGCCACACTGGA
CACAGCAAGGAGCCTCTGCCACAGATGCTGCAGGATCCAGCTGGAGGGAGCAGCTAGAGGGGGTCTTG
GCAGGCTCGAGGGGCTCCCGGAGCTGCTCCAGAGCAGCTGCTGCAAGATGCCTTCACTAGGCTCAGGG
ACATGCGGCTATCAATCAGGGGACCTTGGCAGAGAGCATTGTGGCTCAGGCTTTGGCAGGCCTGAGTGC
AGCCCCGGATCAGCTGGTGGAGAGTCTGGCTCAGCAGGCAACAGTGACAATGCCCCCTGCCTACCAGCA
CCGGATGGAGGTGAGCCAGCCTCCTTGAAGCTGGGGAATTGGAAGGTCTTTTCTTCCCCAGGAGAAGG
AAGAGGAGAAGGAGAAGGATGACAGTCTCCACAGAAAATGGCCTGAGCTCAGCCACGGTCTTACCTGGT
CCCCTTCACTCAGTGTCTGAGGAAGCGGAGCCGAGCCGAGCTGGCGGCTCCGGGAGAAGATGCA
GAGCCGACAGGCGGGCCGTCCGCGCGGGCTCTCCGAGCCCTGCCGCCCTGGGCCCCGGCCGGCCCGC
TGCCCCGATGGACCTGCCACTGGCGGGCAGCCCTGCGCCATCCGACCCGGCCCGCCGCGGGCCCGC
CCGCCAGCACACCACCCCGCCGCGGGGGCCCCAGGTACCCCAAGCCTTGGCCAGGAAGGGAAT
GGGCTCAGTGCCCGCTGGACGAGGGCGTGGAGGAATTCTTCTCCAAAAGGCTGATCCAGCAGGATCGCC
TCTGGGCCCCGAGGAGGACCCGCCACTGAGGGGGCGCCACTCCTGTCCCCGTACACTGCGAAAAGAA
GCTGGGACCCCTCTTGCCTTCAAGAAGCCTCGTTCAACGCGGGGTCCACGGACTGATCTAGAGACCAGC
CCTGGGGCAGCTCCCGAACCAGAAAACACTACATTTGGCGACCTACTGCGGCCGCAACCCTGCCAGCC
GTGGTGGAGAGCTTGGTGGGCTGAGGGGGACACCAGCAGCCCTGACCCTGCCGGCAGGAGCCGACCTCG
CTACACAAGAGATAGCAAGGCCTACTCGATGATACTGCTGCTGCCGAGGAGGAGCAACGCTGGGTGCC
AGACCCGACAAGCGGCGGCCCTGGAGCGGGGAGAAAACAGAACTGGCTCCATCCTTTGAACAGCGGGTAC
AAGTAATGCTGCAGAGGATAGGCGTCAGCCGAGGACGCGGGGTGCCGAAGGCAAGAGGAAGCAAAGCAA
AGATGGCGAGATCAAGAAAGCTGGCTCAGATGGTGACATTATGGACAGTTCCACGGAGGCCCTCCCATC
TCGATCAAGTCCCGCACCCACTCTGTGTCTGCTGACCCTTCTGCAGACCTGGCCAGGGAGCCAGGGGC
CTGAGTCTGCCACCTGGAAGACTGGGGCAGCAGTTGAATGCGGAGCTCAGGAGCCGTGGTTGGGGCCA
ACAGGATGGTCCAGGCCCTCCCTCCCCTGGTCAAAGCCCAAGTCCCTGCAGAACCAGCCCCTCCCCAGAC
AGCCTGGGCTCCAGAGGACCCCTTGTGGGGCCAGAAATGAAGATGGCCAGCTGAGGCCGAGGCCTC
TCTCGGACGGGCGGAGCAGTGTCTGTGCATGAGGACCAGCTCCAGGCCCTGCTGAACGGCCCTGAG
GCTGCAGCGCTCCCCGTCTCAAACGCAGGCCAAAACTCGAGGCACCTCCATCCCCAAGCCTAGGATCT
GGCCTTGAACCGAGCCTCTGCCCCACAGCCACAGAGCCCTCCAGCCCTGAGCGGAGCCACCCTCCC
CAGCCACAGACCAAGAGGCGGGCCCAATCCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217662 representing NM_001013838
 Red=Cloning site Green=Tags(s)

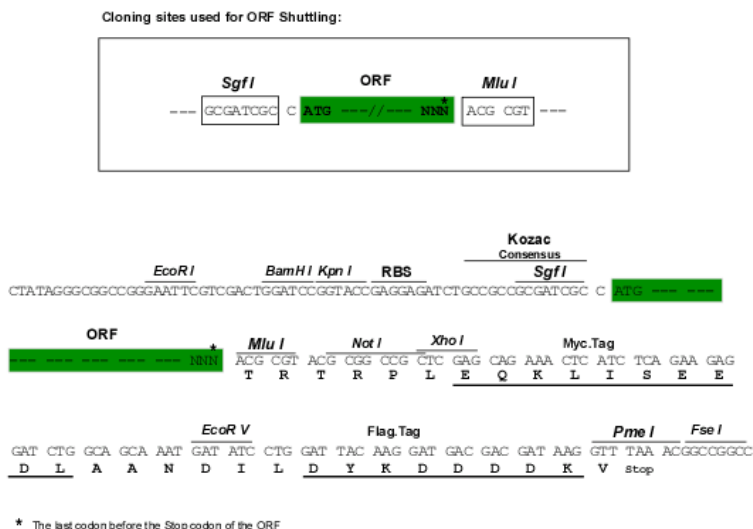
MAQTPDGISCELRGEITRFLWPKEVELLLKTWLPGEQVQNHVLAALLRWAYLLHTTCLPLRVDCTFSYL
 EVQAMALQETPPQVTFELESRELVLEFPGVAALQLAQHVAIAIKKVFPRSTLGLFRRPTPASMRLARL
 ERSSPSESTDPCSPCGGFLETYEALCDYNGFPFREEIQWDVDTIYHRQGCRHFSLGDFSHLGSRDALSV
 AALSYNLWFRCLSCVDMKLSLEVSEQILHMMSQSSHLEELVLETCSLRGDFVRRLAQALAGHSSSGLREL
 SLAGNLLDDRGMTALSRHLERCPGALRRLSLAQTGLTPRGMRALGRALATNAAFDSTLTHLDLSGNPGAL
 GASEDSGGLYSFLSRPNVLSFLNLAGTDTALDTRGCSVGGWMTGRADWRAGRGLGPPAGVANSLPPQL
 FAAVSRGCCTSLTHLDASRNVSRTKSRAAPAALQLFLSRARTLRHLGLAGCKLPPDALRALLDGLALNT
 HLRDLHLDL SACLRSAGAQVIQDLVCDAGAVSSLDLADNGFGSDMVTLLAIGRSRSLRHVALGRNFNV
 RCKETLDDVLRHIVQLMQDDDCPLQSLVAESRLKLGASVLLRALATNPNTALDISGNAMGDAGAKLLA
 KALRVNSRLRSVVWRNHTSALGLLDVAQALEQNHSKAMPLPLNDVAQAQSRPELTARAVHQIQAACL
 RNNRADPASSDHTTRLQPLGLVSDPSEQEVNELCQSVQEHVELLGGGAGPQGEAAVQAEDAIQANFSL
 SILPILYEAGSSPSHHWQLGQKLEGLLRQVGEVCRQDIQDFTQATLDTARSLCPQMLQGSSWREQLGVL
 AGSRGLPELLPEQLLQDAFTRLRDMRLSITGTLAESIVAQALAGLSAARDQLVESLAQQATVTMPALPA
 PDGGEPALLEPGELEGLFFPEEKKEEKEKDDSPQKWPESHGLHLVFPFHSAEAEAEPEPELAAPGEDA
 EPQAGPSARGSPSPAAPGPPAGPLPRMDLPLAGQPLRHPTRARPRRRQHHRPPPGGPVPPALPQEGN
 GLSARVDEGVVEEFFSKRLIQDRLWAPEEDPATEGGATVPVRTLKRLGTLFAFKKPRSTRGRPTDLETS
 PGAAPRTRKTTFGDLLRPPTRPSRGEELGGAEGDTSSDPAGRSRPRYTRDSKAYS MILLPAEEEEATLGA
 RPKRRLERGETELAPSFQVRVQMLQRIGVSRGSGGAEGRKQSKDGEIKKAGSDGIMDSSTEAPPI
 SIKSRTHSVSADPSCRPGGSGQPESATWKTLLGQQLNAELRSRGWGQQDGPSPGQSPSPCARTSPSPD
 SLGLPEDPCLGPRNEDGQLRPRPLSAGRAVSVHEDQLQAPAEPLRLQRSPVLKRRPKLEAPPSPSLGS
 GLGTEPLPPQTEPSSPERSPPSPATDQRGGGNP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

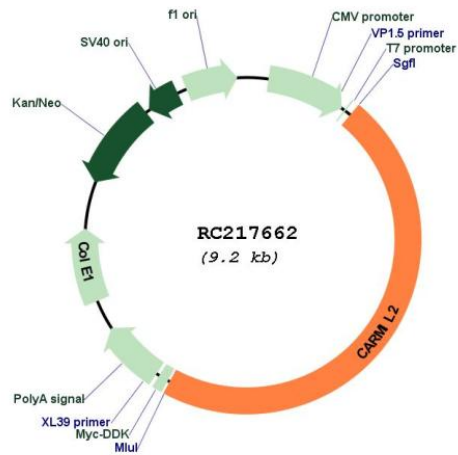
Chromatograms: https://cdn.origene.com/chromatograms/mk8015_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001013838

ORF Size: 4305 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.

RefSeq: [NM_001013838.3](#)

RefSeq Size: 4512 bp

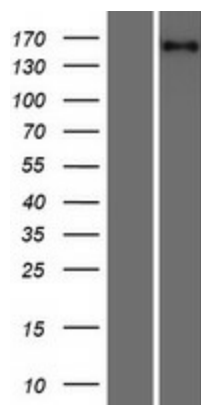
RefSeq ORF: 4308 bp

Locus ID: 146206

MW: 154.5 kDa

Gene Summary: This gene encodes a member of the CARMIL (capping protein, Arp2/3, myosin-I linker) family of proteins. The encoded protein interacts with and negatively regulates the heterodimeric capping protein and promotes cell migration. Reduced expression of this gene has been observed in human psoriasis patients. Mutations in this gene cause a human immunodeficiency syndrome characterized by smooth muscle tumors and impaired T-cell function. [provided by RefSeq, May 2017]

Product images:



Western blot validation of overexpression lysate (Cat# [LY423039]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217662 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).