

Product datasheet for **MC221258**

Carmil2 (NM_001033320) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carmil2 (NM_001033320) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Carmil2
Synonyms:	CG1399-PB; D130029J02Rik; Gm585; Rltpr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221258 representing NM_001033320
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGCTGCCACTGAATGACGTAACCCAGGCTCATCGCAGCCGCCAGAACTCACAACCTCGAGCGGTCC
 ATCAGATCCAAGCCTGTCTCTGGAGGAACAACCAAGTAGACTCTACTTCGGACCTCAAGCCTGCCTTCA
 GCCCTTAGGTCTGATTTAGACCACTCAGAGCAGGAGGTGAACGAGCTATGCCAGTCAGTACAGGAGCAT
 ATGGAGCTGCTGGGCTGTGGGGCTGGGCCCCAGGGTGAGGTTGCCGTGCACCAGGCTGAGGACGCCATCC
 AGAATGCCAACTTCTCTCAGTATCCTCCCCATTCTCTATGAGGCTGGGAGATCCCCAAGCCACCACTG
 GCAGCTGCAGCAGAAGCTAGAGAGCCTCTGGGTGAGTGGGCGAGATCTGCCGCCAGGACATCCAGGAC
 TTAAGTGCAGACCCCTGGATACCAAGGAGCCTCTGCCACAGATGTTGCAGACACCTGGCTGGAGGA
 AGCAGCTAGAGGGAGTTCTGGTGGGCTCCGGGGCCCTCCAGAGCTGCTCCGGAACATCTGCTGCAAGA
 TGCCCTTCTAGGCTGAGGGACATGCGCCTGTCAATCACTGGGACCCTAGCAGAGAGCATTGTGGCTCAG
 GCTCTTGCAAGTCTTATGCAGCCCAGATCGACTGGTGGAGAGGCTAACTCAGCAGGCACCAAGTACCA
 TGGCCCTGCTGTACCACCACTGGGTGGAATGAGCTCAGCCCCCTTGAGACTGGGGATTGGAAGAGCT
 TTTCTTTCCACGGAGAAGGAAGAGGAGAGAGAAAAGGATGAGAGTTCTTATGGAATGGCTTGAGCCT
 AGTAACTGTTTTACCTGGTCTCCTCCCTTATGGTGTGCTGAGGAAGCGGAACGGGACCCCGAGCTGG
 CAGCTCCGGGGGAAGATGCAGAGCCGAGGCTGGGCCGTGACACGGCTCTCCAAGCCCCGCCGCC
 GGGGCCACCCGCCGCCCTCTGCCTCGCATGGACTGCCACCCGCCGGCAACCCCTACGCCACCAACC
 CGAGCCGACCGAGACCAGCTCGCCAGCACCACCACCCCGCCGCCGGGGGCCCCAGGTGCCCCAG
 CCCTGCTTCAAGAAGGAAATGGGCTCACTGCTCGCGTGGATGAGGGTGTGGAGGATTTCTTCCAAAAG
 GCTGATCCAGCAGGATCACTTCTGGGCCCCAGAGGAGGATCCAGCCACTGAGGGTGGTCCACTCCTGTC
 CCCCACACTTCGAAAGAAGCTGGGTACGCTCTTTGCCTTTAAGAAACCTCGTTCAACAAGGGTCCGC
 GACCTGACCTGGAGACCAGCCCTGGAGCAGCAGCTCGAGCCAGAAAATCCACACTTGGGGATCTCCTGCG
 ACCACCGCCCGTCCAGGCCGTGGTGGGAACCTGGAGGGGCGAAGGCGGCACCAGCAGCCCTGACCT
 GCTCGCAGAAATCGCCCTCGGTACACGGGAAAGCAAGGCTACTCCATGATCCTGCTACCTGCTGAGG
 AGGAAGCAGCCGTGGGTACCAGACCTGATAAGAGGCGGCCTTGGAACGGGGAGACAGAACTGGCTCC
 ATCTTTGAGCAGCGGTACAAGTATGCTACAGAGGATCGCGTGGAGCCGGCCAGTGGGGTGGCCGAG
 AGCAAGAGGAAGCAAAGTAAAGACGGCGAGATCAAGAAGCAGGCTCTGATGGTACATTATGGACAGTT
 CCACAGAGACCCCTCCATCTCAATCAAGTCCCGTACCCACTCTGTGCTGCTGATCCCTCATGCAGACC
 TGGGCCAGGAGCCAGGGCCTGAGTCTGCCACCTGGAAGACATTGGGACAGCAGCTGAATGCAGAGCTC
 AGAGGCCGTGGTTGGGGCCAACAGGATGGTCCAGGGCCCCCTCCCATGTCCCAGCCAAAGTCCCCGAA
 GAACCAGCCCCGCCAGACATCCTGAGTCTCCAGAGGACCCCTGCTTGGGCCCTAGGAATGAAGAACG
 GCCCTCCGGCTGCAGCGCTCCCTGTCTCAAGCGTAGGCCGAAGCTCGAGGCACCCCCATCCCCAAGC
 TTAGGCTCTGGCCTTGGATCCAAGCCTCTCTCCGTACCCACAGAACCCCTCCAGCCCTGAGCGGAGCC
 CTCCTCCCAGCCACAGACCAAGAGGGCGGCCCAACCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001033320

Insert Size: 2217 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:	<ol style="list-style-type: none">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:	<u>NM_001033320.2</u> , <u>NP_001028492.1</u>
RefSeq Size:	2504 bp
RefSeq ORF:	2217 bp
Locus ID:	234695
UniProt ID:	<u>Q3V3V9</u>
Cytogenetics:	8 D3
Gene Summary:	Cell membrane-cytoskeleton-associated protein that plays a role in the regulation of actin polymerization at the barbed end of actin filaments. Prevents F-actin heterodimeric capping protein (CP) activity at the leading edges of migrating cells, and hence generates uncapped barbed ends and enhances actin polymerization. Plays a role in cell protrusion formations; involved in cell polarity, lamellipodial assembly, membrane ruffling and macropinosome formations. Involved as well in cell migration and invadopodia formation during wound healing (By similarity). Required for CD28-mediated stimulation of NF-kappa-B signaling, involved in naive T cells activation, maturation into T memory cells, and differentiation into T helper cells (PubMed:27647348). Required for CD28-mediated differentiation of T regulatory cells (By similarity).[UniProtKB/Swiss-Prot Function]