

Product datasheet for MC224360

Carmil1 (NM_026825) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carmil1 (NM_026825) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Carmil1
Synonyms:	1110037D04Rik; AI425970; CARMIL; CARML1; D130057M20; Lrrc16; Lrrc16a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224360 representing NM_026825 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCGACGAGAGCTCCGATGTCCCCGGGAGTTAATGGAAAGCATCAAGGATGTTATTGGCAGGAAGA
TCAAAATCTCAGTGAAGAAGAAAGTGAAGTTGGAAGTGAAGGGCGACAGGGTGGAAAACAAAGTCTGGT
GCTCACATCATGCCGAGCCTTCTCCTGTGTCAGCAGCATCCCCAGCAAGCTCGAGTTAACCTTCAGTTAT
CTAGAGATTCATGGAGTCATCTGCCACAAGCCAGCCAGATGGTTGTGGAGACTGAGAAGTGAACATGT
CCATGAAGATGGTGTCCCGAGGATGTGAGTGAAGTGTGGCTCACATAGGCACCTGCTTGGGAGGAT
ATCCCAGGCCTTCCCCACTGAGAATCATGAAGAAAGTCTCCATGGAGCCATCTGAACGCTGCGCCAGT
CTCCAGGCCCTGTGGGACAGCCAGACCTTGGCTGAGCCAGGCCCTGTGGTGGGTTTTCTCAGATGTATG
CCTGTGTGTGCGACTGGCTGGCTTTTACACAAGGAAGAAGTGCAGTGGGATGTGGATACAATTTATCT
GACACAAGACACCAGGAATTAATTTACAGGACTTCAGTCATCTCGAGCACAGAGACCTGATCCCCATC
ATTGCTGCCCTGGAGTAAACCAGTGGTTCACCAAAGTCTCCTTAAGGATCTCAAAGTCTCCACGGATG
TTTGTGAACAGATTTTGGAGTGGTGGTGGTCAATCGACTGGAAGAGTTGGTGTGGAAAATGCTGG
ACTCAGAATAGATTTTGCACAGAAATTGGCCGGTCTTAGCACACAATCCTAACTCAGGACTTCACACA
ATCAACCTTGCTGGAACTCGTGGAGGATCGAGGTGTGCTCCTTAAGTATTCAATTTGCCAACTCC
CAAAGGGATTGAAGCATTGAACCTCTCTAAAACCTCATTGTACCTAAAGGGTGAACAGCCTTTGTCA
GTCCCTCAGTGCCAACCTCTGACTGCCTCTACCTCACCCACCTGGACCTCTCAGGGAATGCCCTCCGC
GGAGATGACCTCTCGACATGTACAATTTTTGGCCAGCCCAACACCATTGTTTCATCTGGATCTATCTA
ATACAGAATGTTCTCTGGAGATGGTGTGAGCGCTCTCCTCCGGGTTGCCTTCAGTGTCTCGTGTGCT
CAATCTCTCCAGATCTGTCTTCTCACAGGAAAGGAAAGTCCCTCCGTCTTCAAGCAGTTTTTC
AGCAGTTCTCTGGCTTTGATCCAATCAACCTTTCAGGCACGAAGCTGTCTCCGAGCCCTTGAAGCGC
TGCTCTTGGGCCCTGGCCTGCAATCATAGCTGAAGGGAGTCTCTCTGGATCTCAGCAACTGTGAGCTGG
CCACTGTCTGAGGTCAGGAGGAGCTCAAGTGTAGAAAGGCTGCATCGCTGAAATCCACAACATCACCAGC
TTAGATATCTCTGACAATGGTTTGAATCCGACCTATCTACCCTAATTGTGTGGCTCAGTAAAAACAGAT



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CAATACAGCACCTGGCATTGGGCAAAAATTTAATAATATGAAATCCAAAAATCTGACGCCTGTGTGGA
 CACTTAGTGCAGATGATCCAAGATGAAGACTCTCCTCTGCAGTCGTTGTCCCTGGCTGACTCAAACTC
 AAGGCTGAGGTACCATCATCAATGCCCTGGGCAGCAACACCTCCCTGACCAAAGTGGACATCAGTG
 GGAATGGCATGGGGACATGGGAGCGAAGATGCTGGCCAAAGGCTCTCCAGATCAACACAACTCAGGAC
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 CAGAAGAGGCTCTGCAGAAGATAGAAAAATTATCTGCTCCGGAATCACGAGACCAGGAAATACCTTCAGGA
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 AAGGTTACAGGATCACCTCAACTCCTTACAGCCTGTGGGGGTGATGCTATTACAGGAGGATTTAAAGGCAG
 CGGAGCGGCTCATGCGAGATGCTAAGAACTCTAAAACATTGTTGCCCAATTTATATCATGTGGGCGGTGC
 ATCCTGGGCAGGAGCCAGTGGGCTGTATCCAGTCCCATTACAGGAGACCCTGGAGTCGATGGCTGGAGAA
 GTCACAAGAGTGGTGGATGAACAACCTGAAGGATTTGCTAGAATCCATGGTGGACGCGAGCCGAGACCTCT
 GCCCAACGTCATGAGAAAAGCCACATCCGACAGGACCTGATCCATGCCAGCACCAGAAAAGATTTCCAT
 CCCACGTACCTTTGTTAAAAATGCTCTGTTGGAACAGTCCGGGATTGACATTCTTAACAAAATCAGTGAG
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 GCCATCGGAAGCTGGCCAACCATTTACAGAGGCTAAACAAGAGCCTTCCCAAGCAGAGGACCTAGAGGT
 GGAGCTGGTGGAGGAGAAGCCGGTGAACCGGGCCATCCTCACGGTAGAGGATCTCACAGAGGTGGAGAGG
 CTGGAAGACCTAGACACTTGTATGATGACTCCTAAGTCCAAGAGGAAGAGCATCCACAGCCGAATGCTGC
 GCCTGTCTCCAGGGCCTTCAAATGGAGTTTGATCTTGATAAAGCCCTGGAAGAGGTGCCGATTACAT
 CGAAGACCCACCTTTCCCATCAGTCCGGCAAGAGAAGCGAAGCTCGGGGTTAATCTCTGAGCTGCCCTCG
 GAGGAAGCAGGAGACTGGAACACTTACCAAGTTAAGGCCAAGCGGAACAAGAAGCAGCAACCTACGC
 AAGCAGCGGTCTGTACCATCAGCATCTTGCCCCAGGATGGAGAACAGAATGGCCTCATGGCAGATGGA
 TGAAGGGGTAGATGAGTTTTTACCAAGAAGTGACTAAAAATGGATTGCAAGAGGTCATCTCGCGCTCC
 TCAGATGCCACGAACCTCGGGGAAGGAGATGAGAAGAAAAACGGGACTCTCGGAGGAGTGGCTTCTCA
 ACCTGATTAATCCAGGTCCAGATCTGAGCGGCCACCCACAGTCTGATGACGGAAGAGCTCCTCCCC
 GAAAGGGGCAATGCGGAGCCACCAGTGGATACCACCAGGAAGGAGATAAAGGCAGCGGAGCACAATGGT
 GCTCCAGACCGCACAGAAGAGATTAAGACACCGGAACCCCTGGAGGAGGGTCCAGCAGAGGAAGCTGGCA
 GGGCTGAGCGCAGTGACAGCAGGGGCAGCCCGAGGGTGGCCGGCGCTATGTGCAGGTGATGGCAGCGG
 CCTGCTGGCCGAGATGAAGGCCAAGCAGGAGCGGAGGGCAGCATGTGCACAGAAGAAGCTCGGCAATGAT
 GTCATCTCCAGGATCCTCCAGCCAGTCTCGTGAACACAGAGCGTTTGAAGGAGGGGCGACAGTGC
 CTAAACTGCAACCAGGTCTTCCAGAGGCCCGCTTTGGTTCGGGAACACCAGAAAAGAATGCCAAAGCTGA
 ACCCAGAGTGGATGGAGGCTGCAGGTCCCGGAGCTCCTCCAGCATGCCACCAGCCAAAGCCCTCCTT
 CAGTCCCCTAAGCCAGCCCTTACAGCCGGCCTTCTATCCCTCAGAAGCCAAGAAGTGCCTCCCGACCTG
 AAGACACCCAGACTCTCCATCTGGTCTAGTTCCTTAAAGTTGCCCTCCTTCCACCCATCCTCAAAAA
 AGTCTCCTCGGACAAGGAGCGTGACGGCCAGAACAGCTCACAGTCCAGTCCAGGAGCTTCTCCAGGAA
 GCCTCAAGGAGAAGCTGGGGCCCGCCAGGAGTATCAAGAACAGAAGCAACGGTCTCGGGCAAAAGATG
 GTCACCAAGGGAGCAATGCAGTGACTCTGGAGAAGAGGCAGAAAAAGAGTTATTTTTGTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_026825

Insert Size: 4125 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_026825.3</u> , <u>NP_081101.3</u>
RefSeq Size:	5158 bp
RefSeq ORF:	4125 bp
Locus ID:	68732
UniProt ID:	<u>Q6EDY6</u>
Cytogenetics:	13 A3.1
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, however, seems unable to nucleate filaments (PubMed:16054028). Plays a role in lamellipodial protrusion formations and cell migration (PubMed:16054028).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longer isoform (1).