OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG215923

Carmil1 (NM_026825) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Carmil1
Synonyms:	1110037D04Rik; AI425970; CARMIL; CARML1; D130057M20; Lrrc16; Lrrc16a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG215923 representing NM_026825
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCGACGAGAGCTCCGATGTCCCCCGGGAGTTAATGGAAAGCATCAAGGATGTTATTGGCAGGAAGA
TCAAAATCTCAGTGAAGAAGAAAGTGAAGTTGGAAGTGAAGGGCGACAGGGTGGAAAACAAAGTGCTGGT
GCTCACATCATGCCGAGCCTTCCTCCTGTCAGCACGCATCCCCAGCAAGCTCGAGTTAACCTTCAGTTAT
CTAGAGATTCATGGAGTCATCTGCCACAAGCCAGCCCAGATGGTTGTGGAGACTGAGAAGTGTAACATGT
CCATGAAGATGGTGTCCCCAGAGGATGTGAGTGAAGTGCTGGCTCACATAGGCACCTGCTTGCGGAGGAT
ATTCCCAGGCCTTTCCCCACTGAGAATCATGAAGAAAGTCTCCATGGAGCCATCTGAACGTCTGGCCAGT
CTCCAGGCCCTGTGGGACAGCCAGACCTTGGCTGAGCCAGGCCCCTGTGGTGGGTTTTCTCAGATGTATG
CCTGTGTGTGCGACTGGCTGGGCTTTTCATACAAGGAAGAAGTGCAGTGGGATGTGGATACAATTTATCT
GACACAAGACACCAGGGAATTAAATTTACAGGACTTCAGTCATCTCGAGCACAGAGACCTGATCCCCATC
ATTGCTGCCCTGGAGTATAACCAGTGGTTCACCAAACTGTCCTCTAAGGATCTCAAACTGTCCACGGATG
TTTGTGAACAGATTTTGAGAGTGGTGAGTAGGTCCAATCGACTGGAAGAGTTGGTGTTGGAAAATGCTGG
ACTCAGAATAGATTTTGCACAGAAATTGGCCGGTGCTCTAGCACACAATCCTAACTCAGGACTTCACACA
ATCAACCTTGCTGGGAACTCGCTGGAGGATCGAGGTGTGTCCTCCTTAAGTATTCAATTTGCCAAACTCC
CAAAGGGATTGAAGCATTTGAACCTCTCTAAAACCTCATTGTCACCTAAAGGGGTGAACAGCCTTTGTCA
GTCCCTCAGTGCCAACCCTCTGACTGCCTCTACCCTCACCCACCTGGACCTCTCAGGGAATGCCCTCCGC
GGAGATGACCTCTCGCACATGTACAATTTTTTGGCCCAGCCCAACACCATTGTTCATCTGGATCTATCTA
ATACAGAATGTTCTCTGGAGATGGTGTGTAGCGCTCTCCTCCGGGGTTGCCTTCAGTGTCTCGCTGTGCT
CAATCTCTCCAGATCTGTCTTCTCTCACAGGAAAGGAAAGGAAGTCCCTCCGTCTTTCAAGCAGTTTTTC
AGCAGTTCTCTGGCTTTGATCCAAATCAACCTTTCAGGCACGAAGCTGTCTCCCGAGCCCTTGAAAGCGC
TGCTCTTGGGCCTGGCCTGCAATCATAGCCTGAAGGGAGTCTCTCTGGATCTCAGCAACTGTGAGCTTGG
CCACTGTCTGAGGTCAGGAGGAGCTCAAGTGTTAGAAGGCTGCATCGCTGAAATCCACAACATCACCAGC
TTAGATATCTCTGACAATGGTTTAGAATCCGACCTATCTACCCTAATTGTGTGGCTCAGTAAAAACAGAT

View online »

CAATACAGCACCTGGCATTGGGCAAAAATTTTAATAATATGAAATCCAAAAATCTGACGCCTGTGTTGGA
CAACTTAGTGCAGATGATCCAAGATGAAGACTCTCCTCTGCAGTCGTTGTCCCTGGCTGACTCAAAACTC
AAGGCTGAGGTCACCATCATCATCAATGCCCTGGGCAGCAACACCTCCCTGACCAAAGTGGACATCAGTG
GGAATGGCATGGGGGACATGGGAGCGAAGATGCTGGCCAAGGCTCTCCAGATCAACACCAAACTCAGGAC
AGTCATCTGGGACAAAAACAACATCACTGCACAAGGCTTTCAAGACATAGCTGTTGCTATGGAAAAGAAC
TACACACTGCGATTTATGCCAATTCCGATGTATGATGCCGCTCAAGCTCTCAAAACCAACCCCGAGAAAA
CAGAAGAGGCTCTGCAGAAGATAGAAAATTATCTGCTCCGGAATCACGAGACCAGGAAATACCTTCAGGA
GCAGGCCTATCGCCTCCAGCAGGGCATCGTCACCAGCACCACCCAGCAGATGATTGACCGGATATGTGTG
AAGGTTCAGGATCACCTCAACTCCTTACGAGCCTGTGGGGGTGATGCTATTCAGGAGGATTTAAAGGCAG
CGGAGCGGCTCATGCGAGATGCTAAGAACTCTAAAACATTGTTGCCCAATTTATATCATGTGGGCGGTGC
ATCCTGGGCAGGAGCCAGTGGGCTGTCATCCAGTCCCATTCAGGAGACCCTGGAGTCGATGGCTGGAGAA
GTCACAAGAGTGGTGGATGAACAACTGAAGGATTTGCTAGAATCCATGGTGGACGCAGCCGAGACCCTCT
GCCCCAACGTCATGAGAAAAGCCCACATCCGACAGGACCTGATCCATGCCAGCACCGAAAAGATTTCCAT
CCCACGTACCTTTGTTAAAAATGTCCTGTTGGAACAGTCCGGGATTGACATTCTTAACAAAATCAGTGAG
GTGAAGCTGACAGTGGCCTCGTTCTTGTCTGACCGGATCGTCGATGAGATCCTGGATTCTCTCTCCAGCA
GCCATCGGAAGCTGGCCAACCATTTCAGCAGGCTAAACAAGAGCCTTCCCCAGCGAGAGGACCTAGAGGT
GGAGCTGGTGGAGGAGAAGCCGGTGAAACGGGCCATCCTCACGGTAGAGGATCTCACAGAGGTGGAGAGG
CTGGAAGACCTAGACACTTGTATGATGACTCCTAAGTCCAAGAGGAAGAGCATCCACAGCCGAATGCTGC
GGCCTGTCTCCAGGGCCTTCGAAATGGAGTTTGATCTTGATAAAGCCCTGGAAGAGGTGCCGATTCACAT
CGAAGACCCACCTTTCCCATCAGTCCGGCAAGAGAAGCGAAGCTCGGGGTTAATCTCTGAGCTGCCCTCG
GAGGAAGGCAGGAGACTGGAACACTTCACCAAGTTAAGGCCCAAGCGGAACAAGAAGCAGCAACCTACGC
AAGCAGCGGTCTGTACCATCAGCATCTTGCCCCAGGATGGAGAACAGAATGGCCTCATGGGCAGAGTGGA
TGAAGGGGTAGATGAGTTTTTCACCAAGAAGGTGACTAAAATGGATTGCAAGAGGTCATCCTCGCGCTCC
TCAGATGCCCACGAACTCGGGGAAGGAGATGAGAAGAAAAAACGGGACTCTCGGAGGAGTGGCTTCCTCA
ACCTGATTAAATCCAGGTCCAGATCTGAGCGGCCACCCACAGTCCTGATGACGGAAGAGCTCTCCTCCCC
GAAAGGGGCAATGCGGAGCCCACCAGTGGATACCACCAGGAAGGAGATAAAGGCAGCGGAGCACAATGGT
GCTCCAGACCGCACAGAAGAGATTAAGACACCGGAACCCCTGGAGGAGGGTCCAGCAGAGGAAGCTGGCA
GGGCTGAGCGCAGTGACAGCAGGGGCAGCCCGCAGGGTGGCCGGCGCTATGTGCAGGTGATGGGCAGCGG
CCTGCTGGCCGAGATGAAGGCCAAGCAGGAGCGGAGGGCAGCATGTGCACAGAAGAAGCTCGGCAATGAT
GTCATCTCCCAGGATCCTTCCAGCCCAGTCTCGTGCAACACAGAGCGTTTAGAAGGAGGGGCGACAGTGC
CTAAACTGCAACCAGGTCTTCCAGAGGCCCGCTTTGGTTCGGGAACACCAGAAAAGAATGCCAAAGCTGA
ACCCAGAGTGGATGGAGGCTGCAGGTCCCGGAGCTCCTCCAGCATGCCCACCAGCCCAAAGCCCCTCCTT
CAGTCCCCTAAGCCCAGCCCTTCAGCCCGGCCTTCTATCCCTCAGAAGCCAAGAACTGCCTCCCGACCTG
AAGACACCCCAGACTCTCCATCTGGTCCTAGTTCCCCTAAAGTTGCCCTCCTTCCACCCATCCTCAAAAA
AGTCTCCTCGGACAAGGAGCGTGACGGCCAGAACAGCTCACAGTCCAGTCCTAGGAGCTTCTCCCAGGAA
GCCTCAAGGAGAAGCTGGGGCCCGGCCCAGGAGTATCAAGAACAGAAGCAACGGTCCTCGGGCAAAGATG
GTCACCAAGGGAGCAAATGCAGTGACTCTGGAGAAGAGGCAGAAAAAGAGTTTATTTTTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

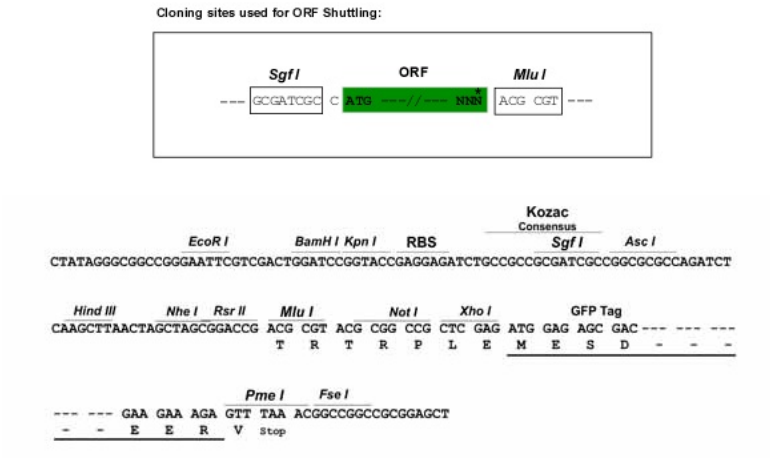
>MG215923 representing NM_026825
Red=Cloning site Green=Tags(s)

MTDESSDVPRELMESIKDVIGRKIKISVKKKVKLEVKGDRVENKVLVLTSCRAFLLSARIPSKLELTFSY
LEIHGVICHKPAQMVVETEKCNMSMKMVSPEDVSEVLAHIGTCLRRIFPGLSPLRIMKKVSMEPSERLAS
LQALWDSQTLAEPGPCGGFSQMYACVCDWLGFSYKEEVQWDVDTIYLTQDTRELNLQDFSHLEHRDLIPI
IAALEYNQWFTKLSSKDLKLSTDVCEQILRVVSRSNRLEELVLENAGLRIDFAQKLAGALAHNPNSGLHT
INLAGNSLEDRGVSSLSIQFAKLPKGLKHLNLSKTSLSPKGVNSLCQSLSANPLTASTLTHLDLSGNALR
GDDLSHMYNFLAQPNTIVHLDLSNTECSLEMVCSALLRGCLQCLAVLNLSRSVFSHRKGKEVPPSFKQFF
SSSLALIQINLSGTKLSPEPLKALLLGLACNHSLKGVSLDLSNCELGHCLRSGGAQVLEGCIAEIHNITS
LDISDNGLESDLSTLIVWLSKNRSIQHLALGKNFNNMKSKNLTPVLDNLVQMIQDEDSPLQSLSLADSKL
KAEVTIIINALGSNTSLTKVDISGNGMGDMGAKMLAKALQINTKLRTVIWDKNNITAQGFQDIAVAMEKN
YTLRFMPIPMYDAAQALKTNPEKTEEALQKIENYLLRNHETRKYLQEQAYRLQQGIVTSTTQQMIDRICV
KVQDHLNSLRACGGDAIQEDLKAAERLMRDAKNSKTLLPNLYHVGGASWAGASGLSSSPIQETLESMAGE
VTRVVDEQLKDLLESMVDAAETLCPNVMRKAHIRQDLIHASTEKISIPRTFVKNVLLEQSGIDILNKISE
VKLTVASFLSDRIVDEILDSLSSSHRKLANHFSRLNKSLPQREDLEVELVEEKPVKRAILTVEDLTEVER
LEDLDTCMMTPKSKRKSIHSRMLRPVSRAFEMEFDLDKALEEVPIHIEDPPFPSVRQEKRSSGLISELPS
EEGRRLEHFTKLRPKRNKKQQPTQAAVCTISILPQDGEQNGLMGRVDEGVDEFFTKKVTKMDCKRSSSRS
SDAHELGEGDEKKKRDSRRSGFLNLIKSRSRSERPPTVLMTEELSSPKGAMRSPPVDTTRKEIKAAEHNG
APDRTEEIKTPEPLEEGPAEEAGRAERSDSRGSPQGGRRYVQVMGSGLLAEMKAKQERRAACAQKKLGND
VISQDPSSPVSCNTERLEGGATVPKLQPGLPEARFGSGTPEKNAKAEPRVDGGCRSRSSSSMPTSPKPLL
QSPKPSPSARPSIPQKPRTASRPEDTPDSPSGPSSPKVALLPPILKKVSSDKERDGQNSSQSSPRSFSQE
ASRRSWGPAQEYQEQKQRSSGKDGHQGSKCSDSGEEAEKEFIFV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026825

ORF Size: 4122 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.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_026825.3, NP_081101.3

RefSeq Size: 5158 bp

RefSeq ORF: 4125 bp

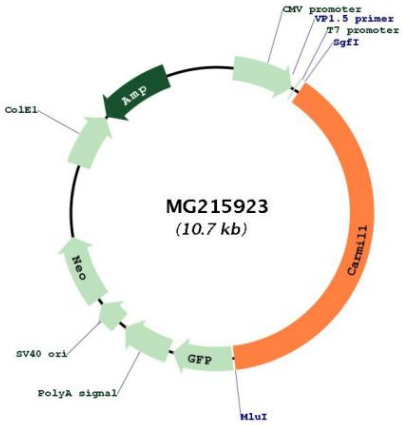
Locus ID: 68732

UniProt ID: Q6EDY6

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]

Product images:



Circular map for MG215923