

Product datasheet for **SC329346**

CARMIL (CARMIL1) (NM_001173977) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CARMIL (CARMIL1) (NM_001173977) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARMIL
Synonyms:	CARMIL; CARMIL1a; dj501N12.1; dj501N12.5; LRRC16; LRRC16A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001173977, the custom clone sequence may differ by one or more nucleotides

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ATGACCGAGGAGAGCTCTGACGTTCCAGGGAGTTGATAGAAAGCATAAAGGATGTTATT
GGCAGAAAGATAAAAATTCAGTGAAGAAGAAAGTAAAGTTGGAAGTTAAGGGAGACAAA
GTTGAAAACAAAGTGCTGGTCCTTACATCATGCCGAGCCTTCCTTGTAAACAGCGGAATC
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TCAGCTCAGATGATTGTGGAACTGAGAAGTGCAGCATTTCATGAAGATGGCGTCACCC
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CTCTCTCCAGTGAGAATCATGAAAAAGTCTCCATGGAGCCATCTGAGCGCTGGCTAGT
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CAGATGTATGCCGTGTTTGTGACTGGCTTGGATTTTCATACAGGGAAGAAGTACAATGG
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TTAATAGTGTGGCTCAGTAAAAACAGATCAATACAACACCTGGCGTTAGGCAAAAATTTT
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GACAAAGAGAGAGATGGCCAGAGTAGCCCCAGCCCAGCCCAGGACATTTTACAGGAA
GTTTCAAGGAGAAGCTGGGGCCAGCAGGCCAGGAGTATCAAGAACAAAAGCAACGGTCC
TCCAGTAAAGATGGCCATCAAGGCAGCAAATCTAATGACTCCGGGGAAGAAGCAGAAAAA
GAGTTTATTTTTGTGTAA

Restriction Sites:

Please inquire

ACCN:

NM_001173977

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001173977.1, NP_001167448.1</u>
RefSeq Size:	5413 bp
RefSeq ORF:	4098 bp
Locus ID:	55604
Cytogenetics:	6p22.2
Gene Summary:	<p>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:19846667).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The resulting isoform (2) lacks an internal 6-aa segment near the C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>