

Product datasheet for **MG209145**

Carm1 (BC036974) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carm1 (BC036974) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Carm1
Synonyms:	MGC46828
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209145 representing BC036974
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCGGCGGACGCGACGGCGGTGGGGCCGGGTGCGGGGAGCGCTGGGGTGGCGGGCCCGGGCGGCG
 CGGGGCCCTGCGCTACAGTGTCTGTGTTCCCGGGCGCCCGCTCCTCACTATCGGCGACGCGAACGGCGA
 GATCCAGCGGCACGCGGAGCAGCAGGCGCTGCGCCTTGAGGTGCGCGCCGACCAGACGCGGCGGGCAGC
 GCCCTCTACAGCCATGAAGATGTGTGTTTTCAAGTGTCTCGGTGTCCGAGAGACAGAGTGCAGTCGTG
 TGGGCAGACAGTCTTCATCATCACCTGGGCTGCAACAGCGTCTCATCCAGTTTGCCACACCCACGA
 TTTCTGTTCTTTTACAACATCTGAAACCTGTCGGGGCCACACTGGAGCGCTCTGTGTTCAGTGAG
 CGGACAGAGGAATCCTCAGTGTGCAGTACTTCCAGTTCTATGGTACCTATCCCAGCAGCAGAATGA
 TGCAGGACTATGTGCGGACAGGCACCTACCAGCGTGCATCCTGCAGAACCACACGGACTCAAGGACAA
 GATCGTTCTAGATGTGGGCTGTGGCTCTGGGATCCTGTCATTTTTGTGCTCAAGCAGGAGCCAGGAAA
 ATTTATGCAGTGAAGCCAGCACCATGGCTCAGCATGCAGAGGTCTGGTGAAGAGTAACAATCTGACAG
 ACCGCATCGTGGTCATCCCTGGCAAAGTAGAGGAGGTCTCATTGCCTGAGCAAGTGGACATTATCATCTC
 AGAGCCCATGGGCTACATGCTCTTCAATGAACGAATGCTCGAGAGCTACCTCCATGCCAAAAAGTACCTG
 AAGCCTAGTGGAAACATGTTCCCAACATTGGTGTGTCACCTCGCACCTTCACTGATGAACAGCTCT
 ACATGGAGCAGTTCACCAAAGCCAATTCTGGTACCAGCCATCCTCCATGGAGTGGACCTGTGCGCCCT
 CAGAGGTGCCGCTGTGGATGAGTACTCCGGCAACCTGTGGTGGACACATTTGACATCCGGATCCTGATG
 GCCAAATCTGTCAAGTACACAGTGAACCTTCTAGAAGCCAAAGAAGGCGATTTGCACAGGATAGAAATCC
 CATTCAAATCCACATGCTGCATTCAGGGCTAGTCCATGGCTTGGCTTGGTTGATGTTGCTTTCAT
 TGGCTCCATAATGACCGTGTGGCTATCCACAGCCCAACAGAGCCCTGACCCACTGGTACCAGGTCCGG
 TGCTCTTCCAGTCACCGTTGTTTGCCAAGGCCGGGACACGCTCTCAGGGACATGTCTGCTTATTGCCA
 ACAAAGACAGAGCTATGACATCAGTATTGTGGCACAGGTGGACCAGACAGGCTCCAAGTCCAGTAACT
 GCTGGATCTAAAGAACCCTTCTCAGGTACACAGGTACAACCCCATCACCCCACTGGCTCACACTAC
 ACGTCTCCCTCGGAGAATATGTGGAACACAGGAAGCACCTATAATCTCAGCAGCGGGGTGGCTGTGGCTG
 GAATGCCTACTGCCTACGACCTGAGCAGTGTATTGCCGGCGGCTCCAGTGTGGTCAACAACCTGAT
 TCCCTTAGGCTCCTCAGGTGCCAGGGAGGCGGGGTAGCTCCAGTGCCCACTATGCAGTCAACAACCGAG
 TTCACCATGGGTGCCCTGCCATCTCTATGGCCTCGCCATGTCCATCCCGACCAACACCATGCAGTATG
 GGAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209145 representing BC036974
 Red=Cloning site Green=Tags(s)

MAAAAATAVPGAGSAGVAGPGGAGPCATVSVFPGARLLTIGDANGEIQRHAEQQALRLEVRAGPDAAGI
 ALYSHEDVCFKCSVSRETECSRVRQSFIIITLGCNSVLIQFATPHDFCSFYNILKTCRGHTLERSVFSE
 RTEESSAVQYFQFYGYLSQQQNMMDYVRTGTQYQRAILQNHTDFDKIVLDVGGSGILSFFAAQAGARK
 IYAVEASTMAQHAEVLKSNLTDRIIVIPGKVEEVSLPEQVDIIISEPMGYMLFNERMLESYLHAKKYL
 KPSGNMFPTIGDVHLAPFTDEQLYMEQFTKANFWYQPSFHGVDLSALRGAADVDFRQPVDTFDIRILM
 AKSVKYTVNFLEAKEGDLHRIEIPFKFHMLHSLVHGLAFWDFVAFIGSIMTVLSTAPTEPLTHWYQVR
 CLFQSPFLFAKAGDTL SGTCLLIANKRQSYDISIVAQVDQTSKSSNLLDLKNPFFRYTGTTPSPPPGSHY
 TSPSENMWNTGSTYNLSSGVAVAGMPTAYDLSSVIAGGSSVGHNNLIPLGSSGAQGGGSSSAHYAVNNO
 FTMGGPAISMASPMSIPTNTMHYGS

TRTRPLE - GFP Tag - V

Restriction Sites:

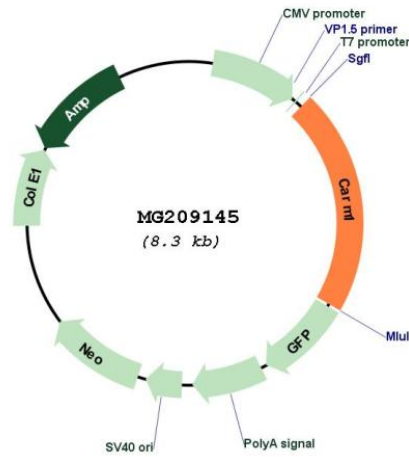
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC036974
 ORF Size: 1757 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:	<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:	BC036974 , AAH36974
RefSeq Size:	3171 bp
RefSeq ORF:	1757 bp
Locus ID:	59035
Cytogenetics:	9 A3
Gene Summary:	Methylates (mono- and asymmetric dimethylation) the guanidino nitrogens of arginyl residues in several proteins involved in DNA packaging, transcription regulation, pre-mRNA splicing, and mRNA stability. Recruited to promoters upon gene activation together with histone acetyltransferases from EP300/P300 and p160 families, methylates histone H3 at 'Arg-17' (H3R17me), forming mainly asymmetric dimethylarginine (H3R17me2a), leading to activates transcription via chromatin remodeling. During nuclear hormone receptor activation and TCF7L2/TCF4 activation, acts synergically with EP300/P300 and either one of the p160 histone acetyltransferases NCOA1/SRC1, NCOA2/GRIP1 and NCOA3/ACTR or CTNNB1/beta-catenin to activate transcription. During myogenic transcriptional activation, acts together with NCOA3/ACTR as a coactivator for MEF2C. During monocyte inflammatory stimulation, acts together with EP300/P300 as a coactivator for NF-kappa-B. Acts as coactivator for PPARG, promotes adipocyte differentiation and the accumulation of brown fat tissue. Plays a role in the regulation of pre-mRNA alternative splicing by methylation of splicing factors. Also seems to be involved in p53/TP53 transcriptional activation. Methylates EP300/P300, both at 'Arg-2142', which may loosen its interaction with NCOA2/GRIP1, and at 'Arg-580' and 'Arg-604' in the KIX domain, which impairs its interaction with CREB and inhibits CREB-dependent transcriptional activation. Also methylates arginine residues in RNA-binding proteins PABPC1, ELAVL1 and ELAV4, which may affect their mRNA-stabilizing properties and the half-life of their target mRNAs.[UniProtKB/Swiss-Prot Function]