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 MG211649

Magi2 (BC059005) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Magi2 (BC059005) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Magi2
Synonyms:	Acvri1, Acvrip1, mKIAA0705, S-SCAM, Magi-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG211649 representing BC059005
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAATTGGAGAAAAGTGGTGCTCTCCTAGAAAGCGGGACCTATGAAGACAACTACTACGGTACCCCGA
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CAGAACCTGAGCCATACAGAAGTAGTGGATATACTTAAGGACTGCCCCGTTGGAAGTGAGACTTCTTTAA
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CACGCCTGGAGTGCTGCCGCTGCCGCCGCCCCAGGCCTGCCGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211649 representing BC059005
Red=Cloning site Green=Tags(s)

MELEKSGALLESGTYEDNYYGTPKPPAEPAPLLNVTDQILPGATPSAEGKRKRNKSVTNMEKASIEPPEE
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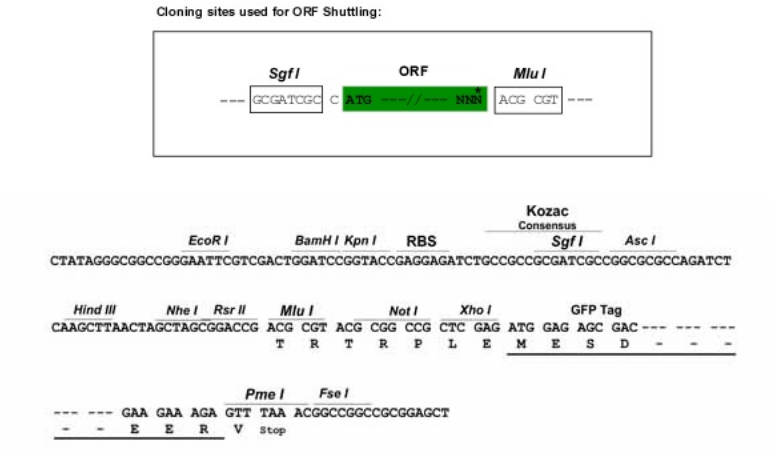
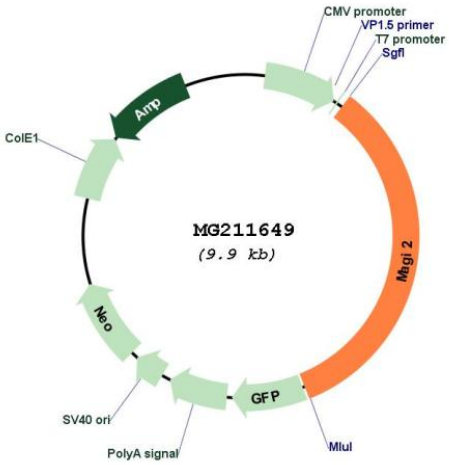
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	BC059005
ORF Size:	3338 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.
RefSeq:	BC059005, AAH59005
RefSeq Size:	4375 bp
RefSeq ORF:	3338 bp
Locus ID:	50791
Cytogenetics:	5 A3
Gene Summary:	Seems to act as scaffold molecule at synaptic junctions by assembling neurotransmitter receptors and cell adhesion proteins. Plays a role in nerve growth factor (NGF)-induced recruitment of RAPGEF2 to late endosomes and neurite outgrowth. May play a role in regulating activin-mediated signaling in neuronal cells. Enhances the ability of PTEN to suppress AKT1 activation (By similarity).[UniProtKB/Swiss-Prot Function]