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Product datasheet for MG217055

Arhgef17 (NM_001081116) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: Arhgef17

Synonyms: 8030463K16; AI428794; AW558066; BC035332; mKIAA0337

Mammalian Cell Selection: Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG217055 representing NM_001081116, codon optimized.
Due to the complexity of NM_001081116, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGACGGTAGCCCAAGACCCCCCTTGTACCGCTCTGTTTCTTTCAAACTTCTGGAACGGTGGAGCG
GCGGCCCTGGCCCCAGAGAGGAAGACGCAGATACACCAGGCCTCAGGAGAAGGGCTTCCTGCCGACCAGC
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GTTCCCAGGACTCCGATGAACTGAACCCAGGCGGTCTGGGTTCTGCCGGTGGTGTCGGCTCCCCTGAGCC
CCCTACCAGCCCCAGGACATCAATGGACGAGTGGGGAACTGGGACACAGCCCTGCCTGCCTGGACCCCAG
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ATCTGGCCAGTCCCGCAGGGAGCCGGGGAAGTAGTAGGTATAGTAGCACCGAGACACTGAAGGATGATGA

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ACCGCAGCCTGAGCGACCCCATTCCTCAACGGCACCGCGCTGCAACGTCAGAGGAGCCGTCCGGCTTTAG
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ATGTGGAATCCCTCAGGACCCTGATGCAAGGCTATATGCAACCTCTGAAACAACCCGAGAACTCCCTCCT
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AGGCTCAGCTCAGGCGGAGGAGGTTCTTCCGAGACGGTGGGTAGAGATGACTCCACGAATCACCTTCTCT
TGTGGCGCGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217055 representing NM_001081116
Red=Cloning site Green=Tags(s)

MADGSPRPPLYRSVSFKLLERWSGGPGPREEDADTPGLRRRASCRPAAAVPGQPSRRVSKLASGPPAAPA
QPRPLRSLSPSVRQLSRRFDAAGLDDDSTGTRDGGCSSGTTEEAAEGSERGAWPSVTEMRKLFGGPSSRR
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ADGLHSWHSFSQPQAGARASSSSSIASSYPVSRSRAASSSEEEEEGPQSQLGPQSPAYLGGHSSGSDEDP
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LEQVRHCVQTWHAQQKVGALLVQSFSKDVLVNIYSAYIDNFLNAKDAVRVAKEARPAFLKFLEQSMRENK
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LQEIEAHIEGMEDLQAPLRRFLRQEMVIEVKAIGGKKDRSLFLFTDLIVCTTLKRKSGSLRRSSMSLYTA
ASVIDTASKYKMLWKLPLEDTDIIKGASQATNRETIQKAISRLDEDLATLGQMSKLSESLGFPHQSLDDA
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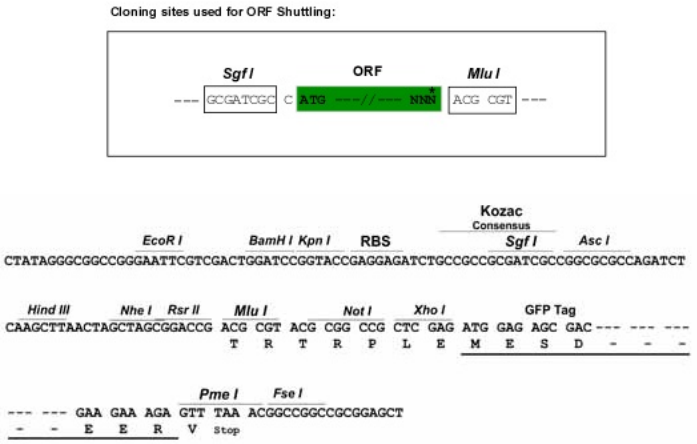
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081116

ORF Size: 6171 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:

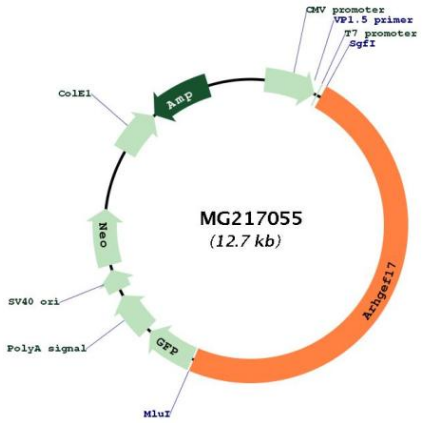
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001081116.1, NP_001074585.1

RefSeq Size:	10250 bp
RefSeq ORF:	6174 bp
Locus ID:	207212
UniProt ID:	Q80U35
Cytogenetics:	7 E2
Gene Summary:	Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPases.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217055