

Product datasheet for MR217542

Arfgef3 (NM_001033258) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arfgef3 (NM_001033258) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arfgef3
Synonyms:	9630004D11; B930094H20Rik; BIG3; D10Bwg1379e; mKIAA1244
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217542 representing NM_001033258 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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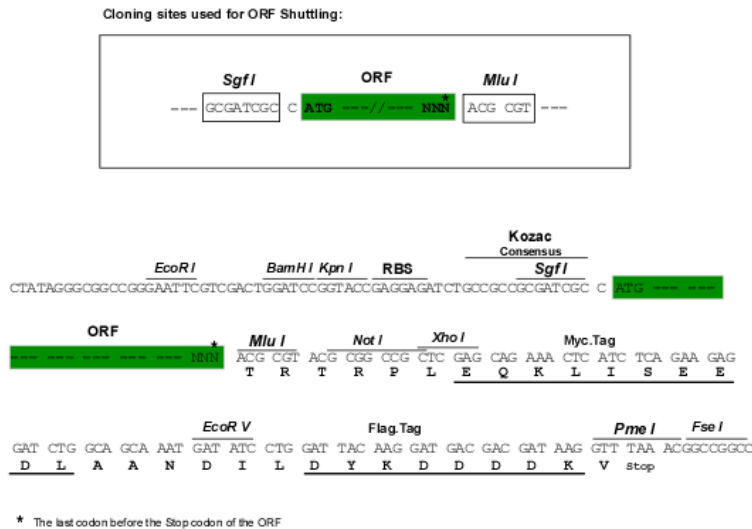
Protein Sequence: >MR217542 representing NM_001033258
 Red=Cloning site Green=Tags(s)

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 DAEAQIQAWTNMVLTVLNQIQILPDQFTALQPAVFCISQLTCHVTDIRVRQAVREWLGRVGRVYDIIIT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9106_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001033258

ORF Size: 6510 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: [NM_001033258.4](#), [NP_001028430.1](#)

RefSeq Size: 8216 bp

RefSeq ORF: 6513 bp

Locus ID: 215821

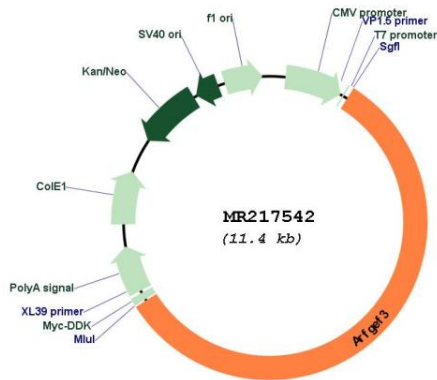
UniProt ID: [Q3UGY8](#)

Cytogenetics: 10 7.79 cM

MW: 240.1 kDa

Gene Summary: Participates in the regulation of systemic glucose homeostasis, where it negatively regulates insulin granule biogenesis in pancreatic islet beta cells (PubMed:24711543). Also regulates glucagon granule production in pancreatic alpha cells (PubMed:25737957). Inhibits nuclear translocation of the transcriptional coregulator PHB2 and may enhance estrogen receptor alpha (ESR1) transcriptional activity in breast cancer cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217542