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Product datasheet for MR225967

Arfgef1 (NM_001102430) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arfgef1 (NM_001102430) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arfgef1
Synonyms:	ARFGEP1; BIG1; D130059B05Rik; D730028O18Rik; P200
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR225967 representing NM_001102430
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>MR225967 representing NM_001102430
Red=Cloning site Green=Tags(s)

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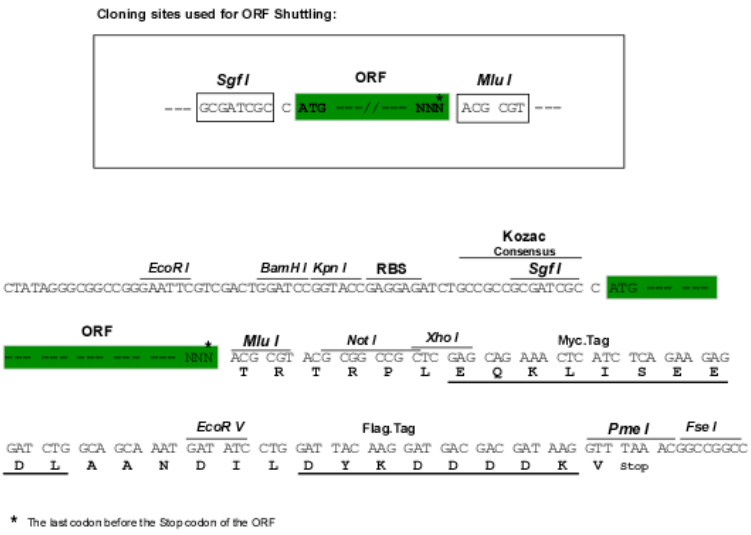
Chromatograms: https://cdn.origene.com/chromatograms/mm9103_d08.zip

Restriction Sites: SgfI-MluI

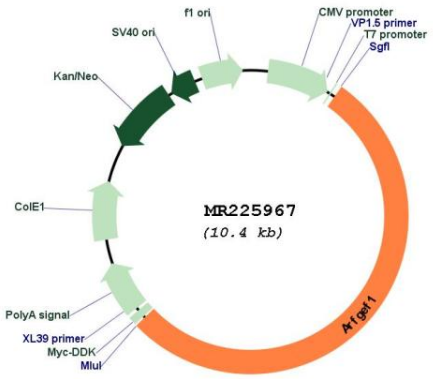
Cloning Scheme:



ACCN:	NM_001102430
ORF Size:	5538 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_001102430.1, NP_001095900.1

RefSeq Size:	7042 bp
RefSeq ORF:	5541 bp
Locus ID:	211673
UniProt ID:	G3X9K3
Cytogenetics:	1 A2
MW:	208.5 kDa
Gene Summary:	Promotes guanine-nucleotide exchange on ARF1 and ARF3. Promotes the activation of ARF1/ARF3 through replacement of GDP with GTP. Involved in vesicular trafficking. Required for the maintenance of Golgi structure; the function may be independent of its GEF activity. Required for the maturaion of integrin beta-1 in the Golgi. Involved in the establishment and persistence of cell polarity during directed cell movement in wound healing. Proposed to act as A kinase-anchoring protein (AKAP) and may mediate crosstalk between Arf and PKA pathways. Inhibits GAP activity of MYO9B probably through competetive RhoA binding. The function in the nucleus remains to be determined (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225967