

Product datasheet for **MR211463L3V**

Arhgef18 (NM_133962) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Arhgef18 (NM_133962) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Arhgef18
Synonyms:	AI467246; D030053O22Rik
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_133962
ORF Size:	3066 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211463).
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.
RefSeq:	NM_133962.3 , NP_598723.3
RefSeq Size:	5300 bp
RefSeq ORF:	3066 bp
Locus ID:	102098
UniProt ID:	Q6P9R4
Cytogenetics:	8 A1.1



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Gene Summary:

Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPases. May play a role in actin cytoskeleton reorganization in different tissues since its activation induces formation of actin stress fibers. Also acts as a GEF for RAC1, inducing production of reactive oxygen species (ROS). Does not act as a GEF for CDC42. The G protein beta-gamma (Gbetagamma) subunits of heterotrimeric G proteins act as activators, explaining the integrated effects of LPA and other G-protein coupled receptor agonists on actin stress fiber formation, cell shape change and ROS production. Required for EPB41L4B-mediated regulation of the circumferential actomyosin belt in epithelial cells.[UniProtKB/Swiss-Prot Function]