

Product datasheet for **MR215297L2V**

Arhgef5 (NM_133674) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Arhgef5 (NM_133674) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Arhgef5
Synonyms:	2210412D05Rik; AA717842; AW495314; Tim1
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_133674
ORF Size:	4743 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR215297).
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_133674.1 , NP_598435.1
RefSeq Size:	5420 bp
RefSeq ORF:	4746 bp
Locus ID:	54324
UniProt ID:	E9Q7D5
Cytogenetics:	6 B2.1


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Gene Summary:

Guanine nucleotide exchange factor which activates Rho GTPases (PubMed:19713215, PubMed:21525037). Strongly activates RHOA (PubMed:19713215, PubMed:21525037). Also strongly activates RHOB, weakly activates RHOC and RHOG and shows no effect on RHOD, RHOV, RHOQ or RAC1 (PubMed:19713215). Involved in regulation of cell shape and actin cytoskeletal organization (PubMed:21525037). Plays a role in actin organization by generating a loss of actin stress fibers and the formation of membrane ruffles and filopodia (By similarity). Required for SRC-induced podosome formation (PubMed:21525037). Involved in positive regulation of immature dendritic cell migration (PubMed:19713215).
[UniProtKB/Swiss-Prot Function]