

## Product datasheet for **MR210704L4V**

### Rasgrp1 (NM\_011246) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Rasgrp1 (NM_011246) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Rasgrp1
Synonyms:	Rasgrp
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_011246
ORF Size:	2385 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210704).
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. <a href="#">More info</a>
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:	<a href="#">NM_011246.2</a>
RefSeq Size:	5155 bp
RefSeq ORF:	2388 bp
Locus ID:	19419
UniProt ID:	<a href="#">Q9Z1S3</a>
Cytogenetics:	2 59.19 cM



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**Gene Summary:**

Functions as a calcium- and diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP. Activates the Erk/MAP kinase cascade. Regulates T-cell/B-cell development, homeostasis and differentiation by coupling T-lymphocyte/B-lymphocyte antigen receptors to Ras. Regulates NK cell cytotoxicity and ITAM-dependent cytokine production by activation of Ras-mediated ERK and JNK pathways (By similarity). Functions in mast cell degranulation and cytokine secretion, regulating FcERI-evoked allergic responses (PubMed:17190838). May also function in differentiation of other cell types. Proto-oncogene, which promotes T-cell lymphomagenesis when its expression is deregulated (PubMed:15829980, PubMed:17210708).[UniProtKB/Swiss-Prot Function]