

Product datasheet for **RR212625L3V**

Gpr18 (NM_001079710) Rat Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Gpr18 (NM_001079710) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Gpr18
Synonyms:	MGC156838
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001079710
ORF Size:	993 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR212625).
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_001079710.1 , NP_001073178.1
RefSeq Size:	1357 bp
RefSeq ORF:	996 bp
Locus ID:	679957
UniProt ID:	A1A5S3
Cytogenetics:	15q25



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Gene Summary:

Receptor for endocannabinoid N-arachidonyl glycine (NAGly) (PubMed:24431468). However, conflicting results about the role of NAGly as an agonist are reported (By similarity). Can also be activated by plant-derived and synthetic cannabinoid agonists (PubMed:24431468). The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase (By similarity). May contribute to regulation of the immune system (By similarity). Is required for normal homeostasis of CD8+ subsets of intraepithelial lymphocytes (IELs) (CD8alphaalpha and CD8alphabeta IELs) in small intestine by supporting preferential migration of CD8alphaalpha T-cells to intraepithelial compartment over lamina propria compartment, and by mediating their reconstitution into small intestine after bone marrow transplant (By similarity). Plays a role in hypotensive responses, mediating reduction in intraocular and blood pressure (PubMed:24431468). Mediates NAGly-induced process of reorganization of actin filaments and induction of acrosomal exocytosis (By similarity).[UniProtKB/Swiss-Prot Function]