

Product datasheet for **MR224013L4V**

Robo1 (NM_019413) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Robo1 (NM_019413) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Robo1
Synonyms:	AW494633; AW742721; DUTT1; Gm310
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_019413
ORF Size:	4836 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224013).
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_019413.2 , NP_062286.2
RefSeq Size:	7568 bp
RefSeq ORF:	4839 bp
Locus ID:	19876
UniProt ID:	O89026
Cytogenetics:	16 C3.1



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Gene Summary:

Receptor for SLIT1 and SLIT2 that mediates cellular responses to molecular guidance cues in cellular migration, including axonal navigation at the ventral midline of the neural tube and projection of axons to different regions during neuronal development (PubMed:10433822, PubMed:24560577). Interaction with the intracellular domain of FLRT3 mediates axon attraction towards cells expressing NTN1 (PubMed:24560577). In axon growth cones, the silencing of the attractive effect of NTN1 by SLIT2 may require the formation of a ROBO1-DCC complex (By similarity). Plays a role in the regulation of cell migration via its interaction with MYO9B; inhibits MYO9B-mediated stimulation of RHOA GTPase activity, and thereby leads to increased levels of active, GTP-bound RHOA (By similarity). May be required for lung development (PubMed:11734623).[UniProtKB/Swiss-Prot Function]