

Product datasheet for **MR224387L4V**

Rtn4rl2 (NM_199223) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Rtn4rl2 (NM_199223) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Rtn4rl2
Synonyms:	Ngr2; Ngrh1; Ngrl3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_199223
ORF Size:	1260 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224387).
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_199223.1 , NP_954693.1
RefSeq Size:	1263 bp
RefSeq ORF:	1263 bp
Locus ID:	269295
UniProt ID:	Q7M6Z0
Cytogenetics:	2 D



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Gene Summary:

Cell surface receptor that plays a functionally redundant role in the inhibition of neurite outgrowth mediated by MAG (By similarity). Plays a functionally redundant role in postnatal brain development (PubMed:27339102). Contributes to normal axon migration across the brain midline and normal formation of the corpus callosum (PubMed:27339102). Does not seem to play a significant role in regulating axon regeneration in the adult central nervous system (PubMed:22406547). Protects motoneurons against apoptosis; protection against apoptosis is probably mediated by MAG (PubMed:26335717). Like other family members, plays a role in restricting the number dendritic spines and the number of synapses that are formed during brain development (PubMed:22325200). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed:22325200).
[UniProtKB/Swiss-Prot Function]