

Product datasheet for **MR222754L3V**

Adgra2 (NM_054044) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Adgra2 (NM_054044) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Adgra2
Synonyms:	8430414O08Rik; 9530074E10Rik; Gpr124; mKIAA1531; Tem5
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_054044
ORF Size:	3990 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR222754).
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_054044.2 , NP_473385.2
RefSeq Size:	5520 bp
RefSeq ORF:	4011 bp
Locus ID:	78560
UniProt ID:	Q91ZV8
Cytogenetics:	8 A2



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Gene Summary:

Endothelial receptor which functions together with RECK to enable brain endothelial cells to selectively respond to Wnt7 signals (WNT7A or WNT7B) (PubMed:25373781, PubMed:25558062, PubMed:28803732). Plays a key role in Wnt7-specific responses, such as endothelial cell sprouting and migration in the forebrain and neural tube, and establishment of the blood-brain barrier (PubMed:21071672, PubMed:21282641, PubMed:21421844, PubMed:25373781, PubMed:28288111). Acts as a Wnt7-specific coactivator of canonical Wnt signaling: required to deliver RECK-bound Wnt7 to frizzled by assembling a higher-order RECK-ADGRA2-Fzd-LRP5-LRP6 complex (By similarity). ADGRA2-tethering function does not rely on its G-protein coupled receptor (GPCR) structure but instead on its combined capacity to interact with RECK extracellularly and recruit the Dishevelled scaffolding protein intracellularly (By similarity). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (By similarity).[UniProtKB/Swiss-Prot Function]