

## Product datasheet for **MR215690L3V**

### Fzd9 (NM\_010246) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Fzd9 (NM_010246) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Fzd9
Synonyms:	mfz9
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_010246
ORF Size:	1776 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR215690).
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_010246.1</a> , <a href="#">NP_034376.1</a>
RefSeq Size:	2110 bp
RefSeq ORF:	1779 bp
Locus ID:	14371
UniProt ID:	<a href="#">Q9R216</a>
Cytogenetics:	5 75.08 cM



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**Gene Summary:**

Receptor for WNT2 that is coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes (By similarity). Plays a role in neuromuscular junction (NMJ) assembly by negatively regulating the clustering of acetylcholine receptors (AChR) through the beta-catenin canonical signaling pathway (PubMed:24860427). May play a role in neural progenitor cells (NPCs) viability through the beta-catenin canonical signaling pathway by negatively regulating cell cycle arrest leading to inhibition of neuron apoptotic process (By similarity). During hippocampal development, regulates neuroblast proliferation and apoptotic cell death (PubMed:15930120). Controls bone formation through non canonical Wnt signaling mediated via ISG15 (PubMed:21402791). Positively regulates bone regeneration through non canonical Wnt signaling (PubMed:24391920).[UniProtKB/Swiss-Prot Function]