

## Product datasheet for **MR225159L4V**

### Axin1 (NM\_009733) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Axin1 (NM_009733) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Axin1
Synonyms:	AI316800; Axin; Fu; fused; Kb; Ki; kinky; knobbly
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_009733
ORF Size:	2604 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR225159).
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_009733.2</a> , <a href="#">NP_033863.2</a>
RefSeq Size:	3809 bp
RefSeq ORF:	2607 bp
Locus ID:	12005
UniProt ID:	<a href="#">O35625</a>
Cytogenetics:	17 13.07 cM



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**Gene Summary:**

Component of the beta-catenin destruction complex required for regulating CTNNB1 levels through phosphorylation and ubiquitination, and modulating Wnt-signaling (By similarity). Controls dorsoventral patterning via two opposing effects; down-regulates CTNNB1 to inhibit the Wnt signaling pathway and ventralize embryos, but also dorsalizes embryos by activating a Wnt-independent JNK signaling pathway. In Wnt signaling, probably facilitates the phosphorylation of CTNNB1 and APC by GSK3B. Likely to function as a tumor suppressor. Facilitates the phosphorylation of TP53 by HIPK2 upon ultraviolet irradiation. Enhances TGF-beta signaling by recruiting the RNF111 E3 ubiquitin ligase and promoting the degradation of inhibitory SMAD7 (By similarity). Also component of the AXIN1-HIPK2-TP53 complex which controls cell growth, apoptosis and development.[UniProtKB/Swiss-Prot Function]