

## Product datasheet for **MR204315L4V**

### Ldlrad4 (NM\_172631) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Ldlrad4 (NM_172631) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Ldlrad4
Synonyms:	8230401C20Rik; A430083H02; A430108L08Rik; C18orf1; D18Ert653e; D330030L18Rik
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_172631
ORF Size:	921 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR204315).
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_172631.2</a>
RefSeq Size:	2493 bp
RefSeq ORF:	921 bp
Locus ID:	52662
UniProt ID:	<a href="#">Q8BWJ4</a>
Cytogenetics:	18 40.14 cM



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**Gene Summary:**

Functions as a negative regulator of TGF-beta signaling and thereby probably plays a role in cell proliferation, differentiation, apoptosis, motility, extracellular matrix production and immunosuppression. In the canonical TGF-beta pathway, ZFYVE9/SARA recruits the intracellular signal transducer and transcriptional modulators SMAD2 and SMAD3 to the TGF-beta receptor. Phosphorylated by the receptor, SMAD2 and SMAD3 then form a heteromeric complex with SMAD4 that translocates to the nucleus to regulate transcription. Through interaction with SMAD2 and SMAD3, LDLRAD4 may compete with ZFYVE9 and SMAD4 and prevent propagation of the intracellular signal.[UniProtKB/Swiss-Prot Function]