

## Product datasheet for **MR227454L4V**

### Trim33 (NM\_053170) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Trim33 (NM_053170) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Trim33
Synonyms:	8030451N04Rik; AI413936; Ecto; Tif1g
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_053170
ORF Size:	3420 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR227454).
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_053170.2</a> , <a href="#">NP_444400.2</a>
RefSeq Size:	8868 bp
RefSeq ORF:	3423 bp
Locus ID:	94093
UniProt ID:	<a href="#">Q99PP7</a>
Cytogenetics:	3 F2.2



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**Gene Summary:**

Acts as an E3 ubiquitin-protein ligase. Promotes SMAD4 ubiquitination, nuclear exclusion and degradation via the ubiquitin proteasome pathway (By similarity). May act as a transcriptional repressor (By similarity). Inhibits the transcriptional response to TGF-beta/BMP signaling cascade (By similarity). Plays a role in the control of cell proliferation (By similarity). Its association with SMAD2 and SMAD3 stimulates erythroid differentiation of hematopoietic stem/progenitor. Monoubiquitinates SMAD4 and acts as an inhibitor of SMAD4-dependent TGF-beta/BMP signaling cascade (Monoubiquitination of SMAD4 hampers its ability to form a stable complex with activated SMAD2/3 resulting in inhibition of TGF-beta/BMP signaling cascade) (By similarity).[UniProtKB/Swiss-Prot Function]