

## Product datasheet for **MR227586L4V**

### **Bmpr1a (NM\_009758) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Bmpr1a (NM_009758) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Bmpr1a
Synonyms:	1110037I22Rik; ALK3; AU045487; Bmpr; BMPR-IA
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_009758
ORF Size:	1596 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR227586).
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_009758.4</a> , <a href="#">NP_033888.2</a>
RefSeq Size:	5481 bp
RefSeq ORF:	1599 bp
Locus ID:	12166
UniProt ID:	<a href="#">P36895</a>
Cytogenetics:	14 20.81 cM



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**Gene Summary:**

On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for BMP2, BMP4, GDF5 and GDF6. Positively regulates chondrocyte differentiation through GDF5 interaction (PubMed:24098149). Mediates induction of adipogenesis by GDF6 (PubMed:23527555).[UniProtKB/Swiss-Prot Function]