

Product datasheet for **MR225467L4V**

Bmp4 (NM_007554) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Bmp4 (NM_007554) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Bmp4
Synonyms:	Bmp-; Bmp-4; Bmp2; Bmp2b; Bmp2b-; Bmp2b-1; Bmp2b1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_007554
ORF Size:	1224 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR225467).
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. More info
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:	NM_007554.2
RefSeq Size:	1994 bp
RefSeq ORF:	1227 bp
Locus ID:	12159
UniProt ID:	P21275
Cytogenetics:	14 23.95 cM



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Gene Summary:

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates heart development and adipogenesis. Homozygous knockout mice die in utero, while a conditional knockout mouse exhibits defects in heart development. Transgenic mice overexpressing this gene in a neuron-specific manner exhibit a phenotype resembling the rare hereditary connective tissue disease, fibrodysplasia ossificans progressiva. [provided by RefSeq, Jul 2016]