

Product datasheet for **MR225488L4V**

Fst (NM_008046) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Fst (NM_008046) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Fst
Synonyms:	AL033346; D2Mgi5; FS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_008046
ORF Size:	1032 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR225488).
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_008046.2 , NP_032072.1
RefSeq Size:	2337 bp
RefSeq ORF:	1032 bp
Locus ID:	14313
UniProt ID:	P47931
Cytogenetics:	13 D2.2


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Gene Summary:

The protein encoded by this gene binds to and negatively regulates activin, as well as other members of the transforming growth factor beta family, and acts to prevent uncontrolled cellular proliferation. This protein also contains a heparin-binding sequence. It is expressed in many of the tissues in which activin is synthesized and is thought to clear activin from the circulation by attachment to the cell surface. Alternative splicing results in multiple transcript variants that encode multiple protein isoforms, including FST315 and FST288, that differ at their C-terminus. Another isoform, FST303 is thought to be produced by proteolytic cleavage of FST315. These isoforms differ in their localization and in their ability to bind heparin. While FST315 is a circulating protein, FST288 is tissue-bound, and FST303 is gonad-specific. While deletion of all isoforms results in embryonic lethality, expression of just FST288 is sufficient for embryonic development, but the resultant mice have fertility defects. [provided by RefSeq, Aug 2014]