

Product datasheet for **MR224903L3V**

Rfx6 (NM_001159389) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Rfx6 (NM_001159389) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Rfx6
Synonyms:	4930572O07Rik; Rfxdc1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001159389
ORF Size:	2781 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224903).
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_001159389.1 , NP_001152861.1
RefSeq Size:	3457 bp
RefSeq ORF:	2784 bp
Locus ID:	320995
UniProt ID:	Q8C7R7
Cytogenetics:	10 B3



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Gene Summary:

Transcription factor required to direct islet cell differentiation during endocrine pancreas development. Specifically required for the differentiation of 4 of the 5 islet cell types and for the production of insulin. Not required for pancreatic PP (polypeptide-producing) cells differentiation. Acts downstream of NEUROG3 and regulates the transcription factors involved in beta-cell maturation and function, thereby restricting the expression of the beta-cell differentiation and specification genes, and thus the beta-cell fate choice. Activates transcription by forming a heterodimer with RFX3 and binding to the X-box in the promoter of target genes (PubMed:20148032). Involved in glucose-stimulated insulin secretion by promoting insulin and L-type calcium channel gene transcription (By similarity). [UniProtKB/Swiss-Prot Function]