

Product datasheet for **MR226645L3V**

Ins2 (NM_008387) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Ins2 (NM_008387) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Ins2
Synonyms:	AA986540; In; Ins-2; InsII; Mod; Mody; Mody4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_008387
ORF Size:	333 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226645).
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_008387.4 , NP_032413.1
RefSeq Size:	467 bp
RefSeq ORF:	333 bp
Locus ID:	16334
UniProt ID:	P01326
Cytogenetics:	7 88.0 cM



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Gene Summary:

This gene encodes insulin, a peptide hormone that plays a vital role in the regulation of carbohydrate and lipid metabolism. The encoded precursor protein undergoes proteolytic cleavage to produce a disulfide-linked heterodimeric functional protein that is stored in secretory granules. An increase in blood glucose levels, among others, induces the release of insulin from the secretory granules. Mice deficient in the functional hormone encoded by this gene develop diabetes mellitus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]