

Product datasheet for **RC222354L2V**

PDX1 (NM_000209) Human Tagged ORF Clone Lentiviral Particle

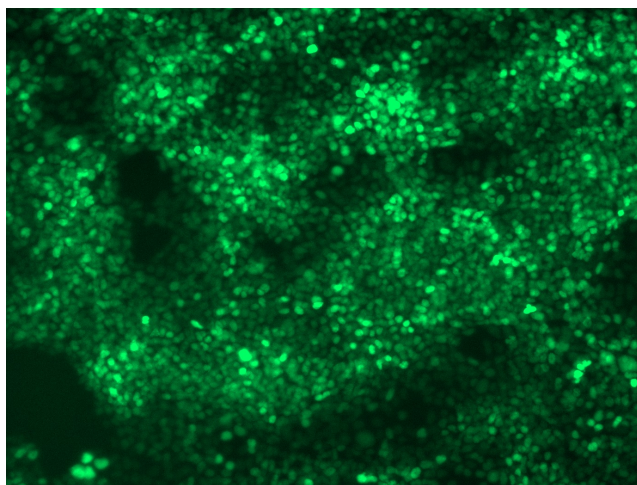
Product data:

Product Type:	Lentiviral Particles
Product Name:	PDX1 (NM_000209) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PDX1
Synonyms:	GSF; IDX-1; IPF1; IUF1; MODY4; PAGEN1; PDX-1; STF-1
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000209
ORF Size:	849 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222354).
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_000209.1
RefSeq Size:	1525 bp
RefSeq ORF:	852 bp
Locus ID:	3651
UniProt ID:	P52945
Cytogenetics:	13q12.2
Protein Families:	Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors



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Protein Pathways:	Maturity onset diabetes of the young, Type II diabetes mellitus
MW:	30.6 kDa
Gene Summary:	The protein encoded by this gene is a transcriptional activator of several genes, including insulin, somatostatin, glucokinase, islet amyloid polypeptide, and glucose transporter type 2. The encoded nuclear protein is involved in the early development of the pancreas and plays a major role in glucose-dependent regulation of insulin gene expression. Defects in this gene are a cause of pancreatic agenesis, which can lead to early-onset insulin-dependent diabetes mellitus (IDDM), as well as maturity onset diabetes of the young type 4 (MODY4). [provided by RefSeq, Aug 2017]

Product images:

[RC222354L2] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC222354L2V particle to overexpress human PDX1-mGFP fusion protein.