

## Product datasheet for **TP322354M**

### **PDX1 (NM\_000209) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human pancreatic and duodenal homeobox 1 (PDX1), 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC222354 representing NM_000209 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MNGEEQYYAATQLYKDPACAFQRGPAPEFSASPPACLYMGRQPPPPPHFPFGALGALEQGSPDISPYEV PPLADDPVAHLHHHLPAQLALPHPPAGPFPEGAEPGVLEENRVQLPFPWMKSTKAHAWKGQWAGGAYA AEPEENKRTAYTRAQLLELEKEFLFNKYISRPRRVELAVMLNLTERHIKIWFQNRRMKWKKEEDKKRG GGTAVGGGGVAEPEQDCAVTSGEELLALPPPPPGGAVPPAAPVAAREGRLPPGLSASPQSSVAPRRPQ EPR  <b>SGP</b> TRTRRLE <b>QKLISEEDLA</b> ANDILDY <b>KDDDDK</b> V
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	30.6 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_000200</a></u>
<b>Locus ID:</b>	3651



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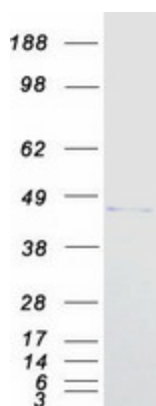
UniProt ID: [P52945](#)  
RefSeq Size: 1525  
Cytogenetics: 13q12.2  
RefSeq ORF: 849  
Synonyms: GSF; IDX-1; IPF1; IUF1; MODY4; PAGEN1; PDX-1; STF-1

**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]

**Protein Families:** Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

**Protein Pathways:** Maturity onset diabetes of the young, Type II diabetes mellitus

### Product images:



Coomassie blue staining of purified PDX1 protein (Cat# [TP322354]). The protein was produced from HEK293T cells transfected with PDX1 cDNA clone (Cat# [RC222354]) using MegaTran 2.0 (Cat# [TT210002]).