

## Recombinant Human HNF1B

**Cat. No.** HNF1B-29461TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human TCF2 with N terminal proprietary tag; Predicted MW 37.29kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	105 amino acids
<b>Description</b>	This gene encodes a member of the homeodomain-containing superfamily of transcription factors. The protein binds to DNA as either a homodimer, or a heterodimer with the related protein hepatocyte nuclear factor 1-alpha. The gene has been shown to function in nephron development, and regulates development of the embryonic pancreas. Mutations in this gene result in renal cysts and diabetes syndrome and noninsulin-dependent diabetes mellitus, and expression of this gene is altered in some types of cancer. Multiple transcript variants encoding different isoforms have been found for this gene.
<b>Molecular Weight</b>	37.290kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	VRKQREILRQFNQTVQSSGNMTDKSSQDQLLFLFPEFSQQ SHGPGQSDDACSEPT NKKMRRNRFKWGPASQQILYQAYDR QKNPSKEEREALVEECNRAECLQRG
<b>Sequence Similarities</b>	Belongs to the HNF1 homeobox family. Contains 1 homeobox DNA-binding domain.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">HNF1B HNF1 homeobox B [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">HNF1B</a>
<b>Synonyms</b>	HNF1B; HNF1 homeobox B; TCF2, transcription factor 2, hepatic; LF B3; variant hepatic nuclear factor; hepatocyte nuclear factor 1-beta; HNF1beta; LFB3; MODY5; VHNF1;
<b>Gene ID</b>	<a href="#">6928</a>
<b>mRNA Refseq</b>	<a href="#">NM_000458</a>
<b>Protein Refseq</b>	<a href="#">NP_000449</a>
<b>MIM</b>	<a href="#">189907</a>
<b>Uniprot ID</b>	<a href="#">P35680</a>
<b>Chromosome Location</b>	17q12

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**Pathway**

Developmental Biology, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Regulation of beta-cell development, organism-specific biosystem; Regulation of gene expression in early pancreatic precursor cells, organism-specific biosystem;

**Function**

DNA binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein homodimerization activity;

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