

## Recombinant Human PITX2 Protein, GST-HIS-tagged

Cat. No. PITX2-134H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PITX2, transcript variant 3, fused with N-terminall GST and C-terminall His was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>This gene encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. The encoded protein acts as a transcription factor and regulates procollagen lysyl hydroxylase gene expression. This protein plays a role in the terminal differentiation of somatotroph and lactotroph cell phenotypes, is involved in the development of the eye, tooth and abdominal organs, and acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin. Mutations in this gene are associated with Axenfeld-Rieger syndrome, iridogoniodysgenesis syndrome, and sporadic cases of Peters anomaly. A similar protein in other vertebrates is involved in the determination of left-right asymmetry during development. Alternatively spliced transcript variants encoding distinct isoforms have been described.</p>
<b>Form</b>	25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1% Sarkosyl.
<b>Molecular Mass</b>	61.6 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Concentration** >50 ug/mL as determined by microplate BCA method

## GENE INFORMATION

**Gene Name** PITX2 paired-like homeodomain 2 [ Homo sapiens ]

**Official Symbol** PITX2

**Synonyms**

PITX2; paired-like homeodomain 2; IHG2, IRID2, paired like homeodomain transcription factor 2 , RGS, RIEG, RIEG1; pituitary homeobox 2; ARP1; Brx1; IGDS; Otlx2; RS; solurshin; all1-responsive gene 1; homeobox protein PITX2; ALL1-responsive protein ARP1; paired-like homeodomain transcription factor 2; rieg bicoid-related homeobox transcription factor 1; RGS; IDG2; IHG2; PTX2; RIEG; IGDS2; IRID2; RIEG1; MGC20144; MGC111022;

**Gene ID** 5308

**mRNA Refseq** NM\_000325

**Protein Refseq** NP\_000316

**MIM** 601542

**UniProt ID** Q99697

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA