

## Recombinant Human TGIF1

Cat. No. TGIF1-31143TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length human TGIF protein isoform 2, 31 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>The protein encoded by this gene is a member of the three-amino acid loop extension (TALE) superclass of atypical homeodomains. TALE homeobox proteins are highly conserved transcription regulators. This particular homeodomain binds to a previously characterized retinoid X receptor responsive element from the cellular retinol-binding protein II promoter. In addition to its role in inhibiting 9-cis-retinoic acid-dependent RXR alpha transcription activation of the retinoic acid responsive element, the protein is an active transcriptional co-repressor of SMAD2 and may participate in the transmission of nuclear signals during development and in the adult. Mutations in this gene are associated with holoprosencephaly type 4, which is a structural anomaly of the brain. Alternative splicing has been observed at this locus and eight variants, encoding four distinct isoforms, are described.</p>
<b>Form</b>	Liquid
<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 50mM Tris acetate, 1mM EDTA, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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## GENE INFORMATION

<b>Gene Name</b>	TGIF1 TGFB-induced factor homeobox 1 [ Homo sapiens ]
<b>Official Symbol</b>	TGIF1
<b>Synonyms</b>	TGIF1; TGFB-induced factor homeobox 1; HPE4, TGFB induced factor (TALE family homeobox) , TGIF; homeobox protein TGIF1;
<b>Gene ID</b>	7050
<b>mRNA Refseq</b>	NM_003244
<b>Protein Refseq</b>	NP_003235
<b>MIM</b>	602630
<b>Uniprot ID</b>	Q15583
<b>Chromosome Location</b>	18p11.31
<b>Pathway</b>	Androgen Receptor Signaling Pathway, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Regulation of nuclear SMAD2/3 signaling, organism-specific biosystem;
<b>Function</b>	chromatin binding; co-SMAD binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity;

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