

Product datasheet for **TP301549**

TGIF (TGIF1) (NM_173208) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human TGFB-induced factor homeobox 1 (TGIF1), transcript variant 3, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201549 protein sequence Red =Cloning site Green =Tags(s)

MKGKKGIVAASGSETEDEDSMDIPLDLSSSAGSGKRRRRGNLPKESVQILRDWLVEHRYNAYPSEQEKAL
LSQQTHLSTLQVCNWFNARRRLLPDMLRKDGKDPNQFTISRRGAKISETSSVESVMGIKNFMPALEETP
FHSCTAGPNPTLGRPLSPKSSPGSVLARPSVICHTTVTALKDVPFSLCQSVGVGQNTDIQQAIAKNFTD
TSLMYPEDTCKSGPSTNTQSGLFNTPPPTPPDLNQDFSGFQLLV DVALKRAAEMELQAKLTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	29.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_775300</u>
Locus ID:	7050



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UniProt ID: [Q15583](#)

RefSeq Size: 1890

Cytogenetics: 18p11.31

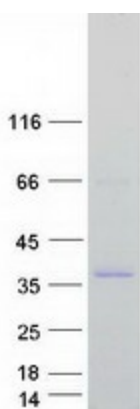
RefSeq ORF: 816

Synonyms: HPE4; TGIF

Summary: 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 multiple splice variants encoding distinct isoforms are described. [provided by RefSeq, Jul 2013]

Protein Families: Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors

Product images:



Coomassie blue staining of purified TGIF1 protein (Cat# TP301549). The protein was produced from HEK293T cells transfected with TGIF1 cDNA clone (Cat# [RC201549]) using MegaTran 2.0 (Cat# [TT210002]).