

Product datasheet for RC206945L4

OriGene Technologies, Inc.

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TGIF (TGIF1) (NM_174886) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: TGIF (TGIF1) (NM_174886) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: TGIF

Synonyms: HPE4; TGIF

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

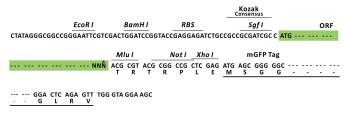
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC206945).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



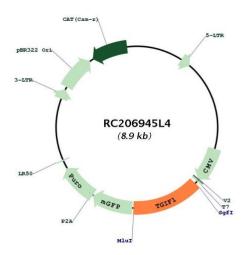


 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_174886

ORF Size: 1203 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 174886.1, NP 777480.1</u>

RefSeq Size: 1687 bp RefSeq ORF: 759 bp



TGIF (TGIF1) (NM_174886) Human Tagged Lenti ORF Clone - RC206945L4

 Locus ID:
 7050

 UniProt ID:
 Q15583

 Cytogenetics:
 18p11.31

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

signaling pathway, Transcription Factors

MW: 43 kDa

Gene 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 corepressor 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