

Product datasheet for **RG223200**

TGIF (TGIF1) (NM_173211) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TGIF (TGIF1) (NM_173211) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | TGIF1 |
| Synonyms: | HPE4; TGIF |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG223200 representing NM_173211 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATTCCCTTGACCTTTCTTCATCCGCTGGCTCAGGCAAGAGAAGGAGAAGGGCAACCTACCCA
AGGAGTCTGTGCAGATTCTCGGGATTGGCTGTATGAGCACCGTTACAATGCCTATCCTTCAGAGCAAGA
AAAAGCGTTGCTGTCCCAGCAAACACACCTGTCTACGCTACAGGTCTGTAAGTGGTTCATCAACGCCCGC
CGCAGGCTCCTCCCTGACATGCTGAGAAAGGATGGCAAAGATCCAATCAGTTCACAATTTCCCGCCGTG
GGCCAAGATTTCTGAAACGAGCTCTGTGGAGTCCGTGATGGGCATCAAAAATTCATGCCAGCTCTAGA
GGAGACCCATTTCAATCCTGTACAGCTGGGCCAAACCAACCTAGGGAGGCCACTGTCTCCTAAGCCG
TCATCCCCGGGATCAGTTTTGGCTCGTCCATCAGTGATCTGCCATACCACTGTGACTGCATTGAAAGATG
TCCCTTTCTCTCTGCCAGTCGGTCCGGTGTGGGACAAAACACAGATATACAGCAGATAGCGGCCAAAAA
CTTCACAGACACCTCTCTCATGTACCCAGAGGACACTTGTAAATCTGGACCAAGTACGAATACACAGAGT
GGTCTTTTCAACACTCCTCCCCCTACTCCACGGACCTCAACCAGGACTTCAGTGGATTTAGCTTCTAG
TGGATGTTGCACTCAAACGGGCTGCAGAGATGGAGCTTCAGGCAAACTTACAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223200 representing NM_173211
Red=Cloning site Green=Tags(s)

MDIPLDLSSSAGSGKRRRRGNLPKESVQILRDWLYEHRYNAYPSEQEKALLSQQTHLSTLQVCNWFINAR
 RRLLPDMLRKDGKDPNQFTISRRAKISSETSSVESVMGIKNFMPALEETPFHSCTAGPNPTLGRPLSPKP
 SSPGSLVLRPVSICHTTVTALKDVPFSLCQSVGVGQNTDIQIIAAKNFTDTSMLYPEDTCKSGPSTNTQS
 GLFNTPPPTPPDLNQDFSGFQLLDVVALKRAAEMELQAKLTA

TRTRPLE - GFP Tag - V

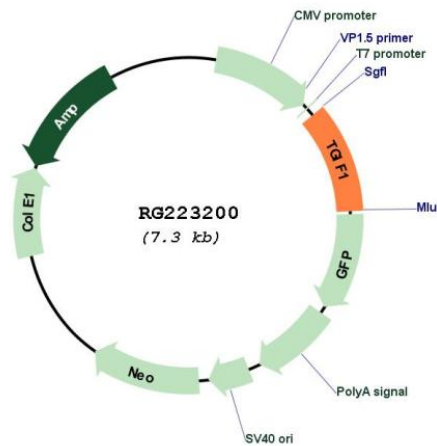
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_173211

ORF Size: 756 bp

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| 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: | <ol style="list-style-type: none">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: | NM_173211.2 |
| RefSeq Size: | 1369 bp |
| RefSeq ORF: | 759 bp |
| 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 |
| 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 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] |