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# Product datasheet for RG232242

## TGF beta induced factor 2 (TGIF2) (NM_001199515) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | TGF beta induced factor 2 (TGIF2) (NM_001199515) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | TGIF2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>RG232242 representing NM_001199515
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGACAGTGATCTAGGTGAGGACGAAGGCCTCCTCTCCCTGGCGGGCAAAAGGAAGCGCAGGGGGA
ACCTGCCCAAGGAGTCGGTGAAGATCCTCCGGGACTGGCTGTACTTGCACCGCTACAACGCCTACCCCTC
AGAGCAGGAGAAGCTGAGCCTTTCTGGACAGACCAACCTGTCAGTGCTGCAAATATGTAACTGGTTCATC
AATGCCCGGCGGCGGCTTCTCCCAGACATGCTTCGGAAGGATGGCAAAGACCCTAATCAGTTTACCATTT
CCCGCCGCGGGGGTAAGGCCTCAGATGTGGCCCTCCCCCGTGGCAGCAGCCCCTCAGTGCTGGCTGTGTC
TGTCCCAGCCCCCACCAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCTTCACTCAGGCCAGGGGGAA
AAGCCAGCAGCCCCTTTCCCACGTGGGGAGCTGGAGTCTCCCAAGCCCCTGGTGACCCCTGGTAGCACAC
TTACTCTGCTGACCAGGGCTGAGGCTGGAAGCCCCACAGGTGGACTCTTCAACACGCCACCACCCACACC
CCCAGAGCAGGACAAAGAGGACTTCAGCAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGCTGCT
GAGATGGAGCTTCAGAAGCAGCAGGACCCATCACTCCCATTACTGCACACTCCCATCCCTTTAGTCTCTG
AAAATCCCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG232242 representing NM_001199515
Red=Cloning site Green=Tags(s)

MSDSDLGEDEGLLSLAGKRKRRGNLPKESVKILRDWLYLHRYNAYPSEQEKLSLSGQTNLSVLQICNWFI
NARRRLLPDMLRKDGKDPNQFTISRRGGKASDVALPRGSSPSVLAVSVPAPTNVLSLSVCSMPLHSGQGE
KPAAPFPRGELESPKPLVTPGSTLTLLTRAEAGSPTGGLFNTPPPTPPEQDKEDFSSFQLLVEVALQRAA
EMELQKQQDPSLPLLHTPIPLVSENPQ

TRTRPLE - GFP Tag - V

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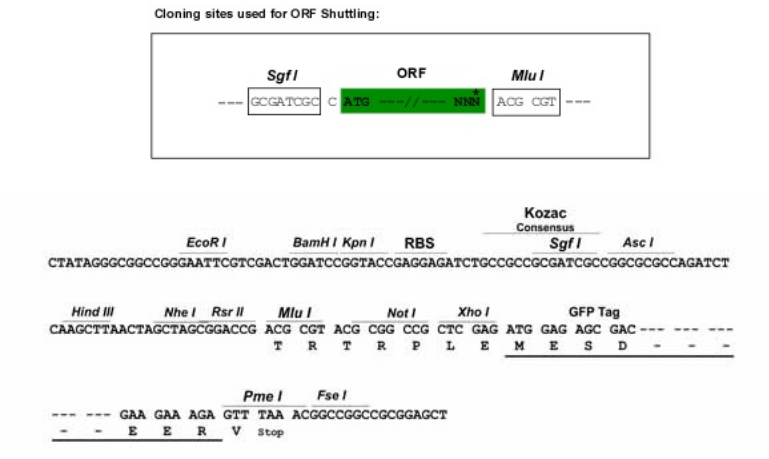
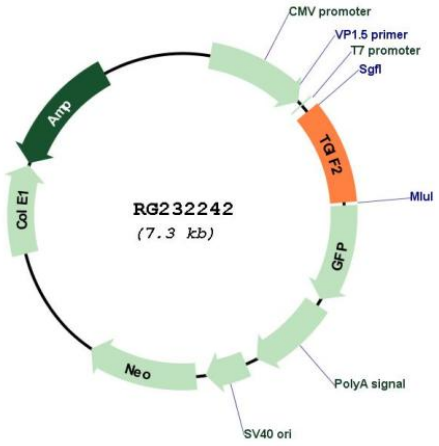
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_001199515

**ORF Size:** 711 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001199515.1, NP_001186444.1 |
| **RefSeq Size:** | 3358 bp |
| **RefSeq ORF:** | 714 bp |
| **Locus ID:** | 60436 |
| **UniProt ID:** | Q9GZN2 |
| **Cytogenetics:** | 20q11.23 |
| **Protein Families:** | Transcription Factors |
| **Gene Summary:** | The protein encoded by this gene is a DNA-binding homeobox protein and a transcriptional repressor, which appears to repress transcription by recruiting histone deacetylases to TGF beta-responsive genes. This gene is amplified and over-expressed in some ovarian cancers. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 1. Read-through transcription also exists between this gene and the neighboring downstream C20orf24 (chromosome 20 open reading frame 24) gene. [provided by RefSeq, Dec 2010] |