

## Product datasheet for **RG232240**

### TGF beta induced factor 2 (TGIF2) (NM\_001199513) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TGF beta induced factor 2 (TGIF2) (NM\_001199513) 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:** >RG232240 representing NM\_001199513  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGACAGTGATCTAGGTGAGGACGAAGGCCTCCTCTCCCTGGCGGGCAAAGGAAGCGCAGGGGGA  
 ACCTGCCCAAGGAGTCGGTGAAGATCCTCCGGGACTGGCTGTACTTGCACCGCTACAACGCCTACCCCTC  
 AGAGCAGGAGAAGCTGAGCCTTCTGGACAGACCAACCTGTCAGTGCTGCAAATATGTAAGTGGTTCATC  
 AATGCCCGGGCGGCTTCTCCAGACATGCTTCGGAAGGATGGCAAAGACCCTAATCAGTTTACCATT  
 CCCGCCGGGGGTAAGGCCTCAGATGTGCCCTCCCGTGGCAGCAGCCCTCAGTGTGGCTGTGTC  
 TGTCACGCCCCCAACAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCTTCACTCAGGCGAGGGGAA  
 AAGCCAGCAGCCCTTCCACGTGGGAGCTGGAGTCTCCCAAGCCCTGGTGACCCCTGGTAGCACAC  
 TTAAGTGTGCTGACAGGGCTGAGGCTGGAAGCCCAAGGCTGACTCTTCAACACGCCACCCACACC  
 CCCAGAGCAGGACAAAGAGGACTTCAAGCAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGCTGCT  
 GAGATGGAGCTTCAAGCAGCAGGACCCATCACTCCATTACTGCACACTCCCATCCCTTTAGTCTCTG  
 AAAATCCCGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG232240 representing NM\_001199513  
 Red=Cloning site Green=Tags(s)

MSDSDLGEDEGLLSLAGKRKRRGNLPKESVKILRDWLYLHRYNAYPSEQEKLSSGQTNLSVLQICNWF  
 NARRRLLPDMLRKDGKDPNQFTISRGGKASDVALPRGSSPSVLAVSVPAPTNVLSLVCMSPLHSGQGE  
 KPAAPFPRGELESPKPLVTPGSTLTLLTRAEAGSPTGGLFNTPPPTPPEQDKEDFSSFQLLVEVALQRAA  
 EMELQKQDPSLPLLHTPIPLVSEN PQ

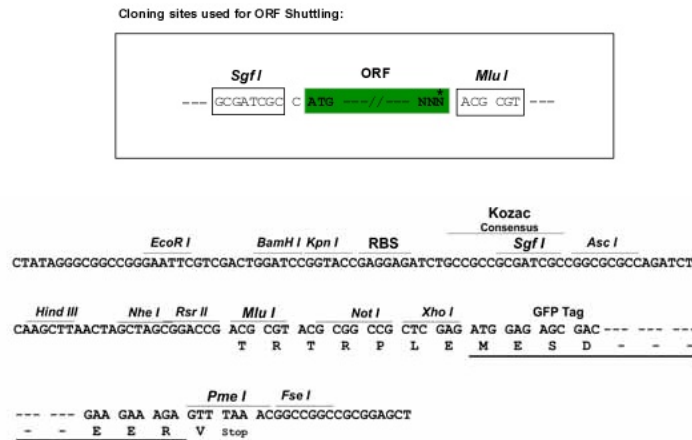
**TRTRPLE** - GFP Tag - V



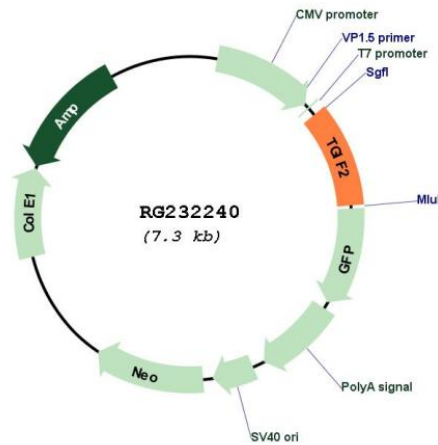
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001199513

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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001199513.1</a></u> , <u><a href="#">NP_001186442.1</a></u>
<b>RefSeq Size:</b>	3328 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	60436
<b>UniProt ID:</b>	<u><a href="#">Q9GZN2</a></u>
<b>Cytogenetics:</b>	20q11.23
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	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]