

Product datasheet for **RG200773**

TGF beta induced factor 2 (TGIF2) (NM_021809) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TGF beta induced factor 2 (TGIF2) (NM_021809) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TGF beta induced factor 2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200773 representing NM_021809
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGTCCGACAGTGATCTAGGTGAGGACGAAGGCCTCCTCTCCCTGGCGGGCAAAGGAAGCGCAGGGGGA
ACCTGCCCAAGGAGTCGGTGAAGATCCTCCGGGACTGGCTGTACTTGCACCGCTACAACGCCTACCCCTC
AGAGCAGGAGAAGCTGAGCCTTCTGGACAGACCAACCTGTCAGTGTGCAAATATGTAAGTGGTTCATC
AATGCCCGGGCGGGCTTCTCCAGACATGCTTCGGAAGGATGGCAAAGACCCTAATCAGTTTACCATT
CCCGCCGCGGGGTAAGGCCTCAGATGTGGCCCTCCCCGTGGCAGCAGCCCTCAGTGTGGCTGTGTC
TGTCACGCCCCCAACAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCTTCACTCAGGCAGGGGGAA
AAGCCAGCAGCCCTTCCACGTGGGAGCTGGAGTCTCCCAAGCCCTGGTGACCCCTGGTAGCACAC
TACTCTGCTGACCAGGCTGAGGCTGGAAGCCCCACAGGTGGACTCTTCAACACGCCACCCACACC
CCCAGAGCAGGACAAAGAGGACTTCAGCAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGCTGCT
GAGATGGAGCTTCAGAAGCAGCAGGACCCATCACTCCCATTACTGCACACTCCCATCCCTTTAGTCTCTG
AAAATCCCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200773 representing NM_021809
Red=Cloning site Green=Tags(s)

MSDSDLGEDEGLLSLAGKRKRRGNLPKESVKILRDWLYLHRYNAYPSEQEKLSSGQTNLSVLQICNWF
NARRRLLPDMLRKDGKDPNQFTISRGGKASDVALPRGSSPSVLAVSVPAPTNVLSLVCMSPLHSGQGE
KPAAPFPRGELESPKPLVTPGSTLTLLTRAEAGSPTGGLFNTPPPTPPEQDKEDFSSFQLLVEVALQRAA
EMELQKQDPSLPLLHTPIPLVSENQ

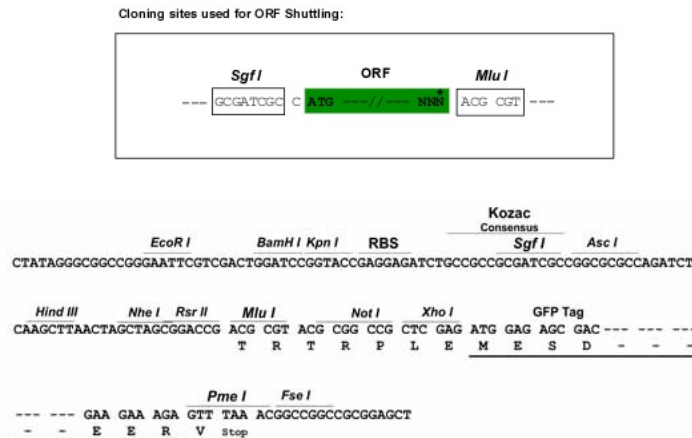
TRTRPLE - GFP Tag - V



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021809

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.
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_021809.7](#)

RefSeq Size: 3406 bp

RefSeq ORF: 714 bp

Locus ID: 60436

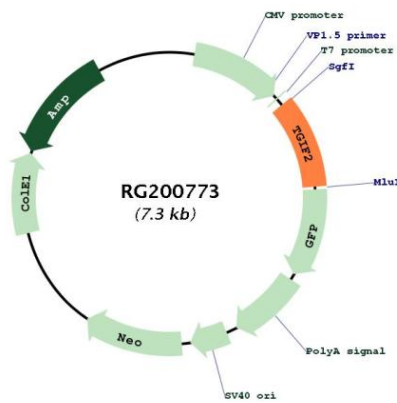
UniProt ID: [Q9GZN2](#)

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]

Product images:



Circular map for RG200773