

## Product datasheet for **RC232241**

### TGF beta induced factor 2 (TGIF2) (NM\_001199514) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TGF beta induced factor 2 (TGIF2) (NM_001199514) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TGF beta induced factor 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC232241 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGACAGTGATCTAGGTGAGGACGAAGGCCTCCTCTCCCTGGCGGGCAAAGGAAGCGCAGGGGGA  
ACCTGCCAAGGAGTCGGTGAAGATCCTCCGGACTGGCTGTACTTGCACCGCTACAACGCCTACCCCTC  
AGAGCAGGAGAAGCTGAGCCTTCTGGACAGACCAACCTGTCAGTGCTGCAAATATGTAAGTGGTTCATC  
AATGCCCGGGGGCTTCTCCAGACATGCTTCGGAAGGATGGCAAAGACCCTAATCAGTTTACCATT  
CCCGCCGGGGGTAAGGCCTCAGATGTGGCCCTCCCCGTGGCAGCAGCCCTCAGTGTGGCTGTGTC  
TGTCACGCCCCACCAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCTTCACTCAGGCCAGGGGAA  
AAGCCAGCAGCCCTTCCACGTGGGAGCTGGAGTCTCCAAGCCCTGGTGACCCCTGGTAGCACAC  
TACTCTGCTGACCAGGCTGAGGCTGGAAGCCCCACAGGTGGACTCTTCAACACGCCACCACCCACACC  
CCCAGAGCAGGACAAAGAGGACTTCAGCAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGCTGCT  
GAGATGGAGCTTCAAGCAGCAGGACCCATCACTCCATTACTGCACACTCCCATCCCTTTAGTCTCTG  
AAAATCCCAG

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232241 protein sequence  
 Red=Cloning site Green=Tags(s)

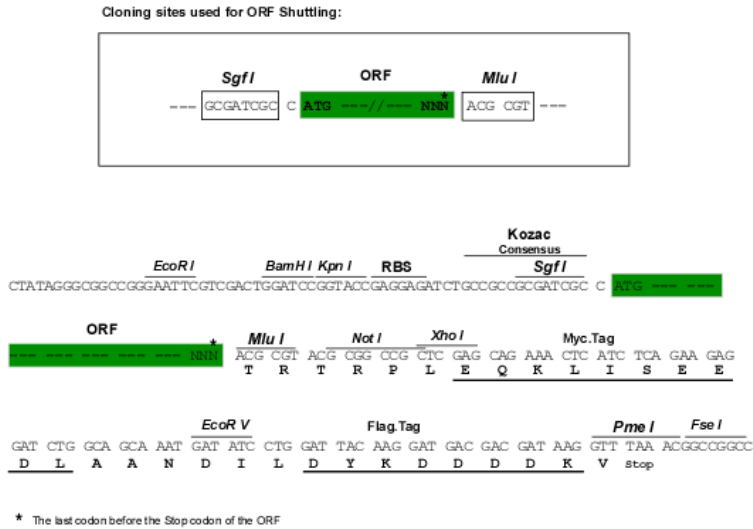
MSDSDLGEDEGLLSLAGKRKRRGNLPKESVKILRDWLYLHRYNAYPSEQEKL SLSGQTNLSVLQICNWF I  
 NARRRLLPDMLRKDGKDPNQFTISRGGKASDVALPRGSSPSVLAVSVPAPT NVLSVCSMPLHSGQGE  
 KPAAPFPRGELESPKPLVTPGSTLTLLTRAEAGSPTGGLFNTPPPTPEQDKEDFSSFQLLVEVALQRAA  
 EMELQKQQDPSLPLLHTPIPLVSEN PQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6565\\_d02.zip](https://cdn.origene.com/chromatograms/mk6565_d02.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001199514

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\\_001199514.2](#)

**RefSeq Size:** 3456 bp

**RefSeq ORF:** 714 bp

**Locus ID:** 60436

**UniProt ID:** [Q9GZN2](#)

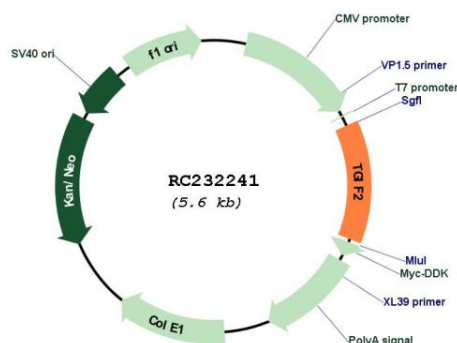
**Cytogenetics:** 20q11.23

**Protein Families:** Transcription Factors

**MW:** 25.9 kDa

**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 RC232241