

## Product datasheet for **RR205276**

### **Tgfbr2 (NM\_031132) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tgfbr2 (NM_031132) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tgfbr2
Synonyms:	TGF-beta 2; Tgfbr2T
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR205276 representing NM\_031132  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTCGGGGCTGCTCCGGGCTGTGGCCGCTGCACATCGTCTGTGGACGCGCATCGCCAGCACGA  
 TCCCGCCGACGTTCCCAAGTCGGTTAACAGCGATCTGATGGCGGTGACAAACAGCGGTGCGGTCAAGCT  
 TCCACAGCTGTGCAAGTTTTGCGACGTGACACTGTCCACTTGTGACAACCAGAAGCTTGCATGAGCAAC  
 TGCAGCGTCACCTCCATCTGTGAGAAGCCGAGGAAGTCTGCGTGGCCGTGTGGAGGAAGAACGACAAGA  
 ACATTACTCTGGAGACGTTTGGCACGACCCCAAGTTCACCTACCACGGCTTCACTCTGGAAGATGCCAC  
 TTCTCCCACGTGCGTCATGAAGGAAAAGAAAAGGGCGGGCGAGACCTTCTTCATGTGCTCTGTAACACA  
 GAGGAGTGAACGATTACATCATCTTTAATGAAGAATACACCACCAGCAGTCTGACCTGTTGCTGGTCA  
 TTATCAAAGTGACGGGCGTCAGCCTCCTGCCTCCGCTGGGGATTGCCATAGCTGTCATTGCCATCTTCTA  
 CTGTTACCGTGTCCACCGCAGCAGAAGTTGAGCCCTCCTGGGAGAGCAGCAAGCCCCGGAAGCTCATG  
 GATTTACGCGACAACGCGCCATCATCCTGGAGGACGACCGCTCTGACATCAGCTCTACGTGCGCCAACA  
 ACATCAACCACAATACGGAAGTCTGCCATCGAGCTGGACACGCTGGTGGGGAAGGGCCGCTTCGCCGA  
 GGTCTACAAGGCCAAGCTGAAGCAGAACACTTCAGAGCAGTTTGGAGCCGTGGCTGTCAAGATCTCCCC  
 TACGAGGAATACTCCTCGTGGAAAACGGAGAAGGACATCTTCTCTGACATCAACCTGAAACAGGAGAACA  
 TCCTGCAGTTCCTGACGGCCGAGGAGCGGAAGACGGAGATGGCAAGCAGTACTGGCTGATCACGGCGTT  
 TCATGCTAAGGGCAACCTGCAGGAGTACCTCACTAGGCACGTATCAGCTGGGAGGACCTGCGGAAGCTG  
 GGCAGCTCCCTGGCCCGGGCATCGCCATCTGCACAGTGACCACACTCCTTGTGGGAGGCCCAAGATGC  
 CCATTGTTACAGGGACCTCAAGAGCTTAACATCCTAGTAAGAAGCGATCTAACCTGTTGCCTGTGTA  
 CTTCCGGTGTGCTTGGGCTGAGCCCTACTCTGTCTGTGGATGACCTGGCCAACAGCGGGCAGGTGGGA  
 ACAGCGAGATACATGGCCCCGGAAGTCTAGAATCCAGGATGAATTTGGAGAACATGGAGTCTTCAAGC  
 AGACGGATGTCTACTCCATGGCTCTAGTACTCTGGGAAATGACGTGCGCTGCAACGCTGTGGGAGAAGT  
 GAAAGATTATGAGCCCCGTTTGGTTCCAGAGTGCAGGACACCCCTGTGTGGAGAGCATGAAAGACAAC  
 GTGCTGAGAGACCGAGGACGGCCTGAAATCCCCAGTCTGGCTCAACCACAGGGCATCCAGATCGTGT  
 GTGAGACTGACCGAGTGTGGACCACGACCCCGAGGCCGCTCTCACAGCCAGTGTGTGGCAGAGCG  
 CTTCACTGAACTGGAGCACCAGATAGACTCTCCGGGAGGAGTCTCCAGGAGAAGATTCCAGAAGAC  
 GGCTCCCTGAACACTACAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR205276 representing NM\_031132  
 Red=Cloning site Green=Tags(s)

MGRGLLRGLWPLHIVLWTRIASTIPPHVPKSVNSDLMAGDNSGAVKLPQLCKFCDVTLSTCDNQKSCMSN  
 CSVTSICEKPEVCVAVWRKNDKNITLETVCHDPKFTYHGFTLEDATSPTCVMKEKKRAGETFFMCSCNT  
 EECNDYIIFNEEYTTSSPDLIIQVTVSLLPPLGIAIAVIAIFYCYRVHRQQKLSWESSKPRKLM  
 DFSNCAIILEDSDISSTCANNINHNTELLPIELDTLVGKGRFAEVYKAKLKQNTSEQFETVAVKIFP  
 YEEYSSWKTEKDIFSDINLKHENILQFLTAEERKTEMGKQYWLITAFHAKGNLQEYLTRHVISWEDLRKL  
 GSSLARGIAHLHSDHTPCGRPKMPIVHRDLKSSNILVRSDLTCCLCDFGLSLGLSPTLSVDDLANSQVVG  
 TARYMAPEVLESRMNLENMESFKQTDVYSMALVLWEMTSRCNAVGEVKDYEPFPGSRVREHPCVESMKDN  
 VLRDRGRPEIPSWLHNHQGIQIVCETLTCWDHDPPEARLTAQCVARFSELEHPDRLSGRSCSSEKIPED  
 GSLNNTK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_031132

**ORF Size:** 1701 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

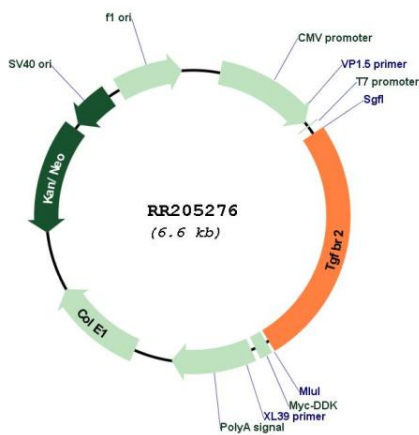
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_031132.3](#), [NP\\_112394.3](#)  
**RefSeq Size:** 2080 bp  
**RefSeq ORF:** 1704 bp  
**Locus ID:** 81810  
**UniProt ID:** [P38438](#)  
**Cytogenetics:** 8q32  
**MW:** 64.1 kDa  
**Gene Summary:** receptor for TGF-beta; may play a role in lung maturation and response to hypoxia [RGD, Feb 2006]

**Product images:**



Circular map for RR205276