

Product datasheet for RR214950

Tgfb1 (NM_021578) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgfb1 (NM_021578) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tgfb1
Synonyms:	Tgfb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214950 representing NM_021578 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCCCTCGGGGCTGCGGCTGCTGCCGTTCTGCTCCCACTCCCGTGGCTTCTAGTGCTGACGCCCG
GGAGGCCAGCCGCGGACTCTCCACCTGCAAGACCATCGACATGGAGCTGGTGAACGGAAGCGCATCGA
AGCCATCCGTGGCCAGATCCTGTCCAACTAAGGCTCGCCAGTCCCCGAGCCAGGGGAGGTACCGCCG
GGCCCGTGCCGAGGCGGTGCTCGCTTGTACAACAGCACCCGCGACCGGTGGCAGGCGAGAGCGCTG
ACCCGGAGCCCGAGCCGAGGCGGACTACTACGCCAAAGAAGTCACCCGCGTGTAAATGGTGGACCGCAA
CAACGCAATCTATGACAAAACCAAGACATCACACACAGTATATATATGTTCTTCAATACGTCAGACATT
CGGAAGCAGTGCCAGAACCCCAATTGCTGTCCCGTGCAGAGCTGCGCCTGCAGAGATTCAAGTCAACTG
TGGAGCAACACGTAGAATCTACCAGAAATATAGCAACAATTCCTGGCGTTACCTTGGTAACCGGCTGCT
GACCCCACTGATACGCCTGAGTGGCTGTCTTTGACGTCACCTGGAGTTGTCCGGCAGTGGCTGAACCA
GGAGACGGAATACAGGGCTTTCGCTTCACTGCTACTGCTTGTGACAGCAAAGATAATGTAATCCACG
TGGAAATCAATGGGATCAGTCCCAAACGTCGAGGTGACCTGGGCACCATCCATGACATGAACCGACCTT
CCTGCTCTCATGGCCACCCCTGGAAAGGGCTCAACACCTGCACAGCTCCAGGCACCGGAGAGCCCTG
GATACCAACTACTGCTTCAGCTCCACAGAGAAGAACTGCTGTACGGCAGCTGTACATTGACTTTAGGA
AGGACCTGGGTTGGAAGTGGATCCACGAGCCCAAGGGCTACCATGCCAACTTCTGTCTGGGGCCCTGCC
CTACATTTGGAGCCTGGACACACAGTACAGCAAGTCTTGGCCCTCTACAACCAACAACCCGGGTGCT
TCCGCATACCGTGTGCGTGCCGACGGCTTTGGAGCCACTGCCCATCGTCTACTACGTGGGTGCGAAGC
CCAAGGTGGAGCAGTTGTCCAACATGATCGTGCGCTCCTGCAAGTGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214950 representing NM_021578
Red=Cloning site Green=Tags(s)

MPPSGLRLLPLLLPLWLLVLTGPRPAAGLSTCKTIDMELVKKRRIEAIHQILSKLRLASPPSQGEVPP
 GPLPEAVLALYNSTRDRVAGESADPEPEPEADYYAKEVTRVLMVDRNNAIYDKTKDITHSIYMFNTSDI
 REAVPEPPLLRAELRLQRFKSTVEQHVELYQKYSNNSWRVYLGNRLLTPTDTPEWL SFDVTGVVRQWLNQ
 GDGIQGFRRFSAHCSKSDKDNVLHVEINGISPKRRGDLGTIHDNRPFLLLMATPLERAQHLHSSRHRRAL
 DTNYCFSSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNPGA
 SASPCVPALEPLPIVYVYVGRKPKVEQLSNMIVRSCKCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3226_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021578

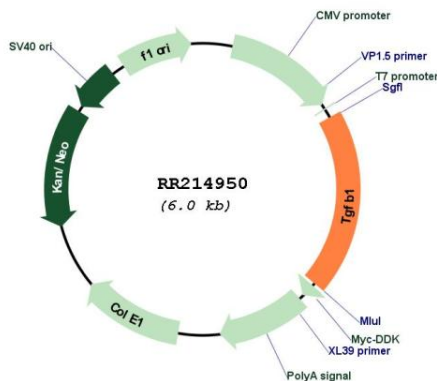
ORF Size: 1170 bp

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 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:	<ol style="list-style-type: none"> 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_021578.2 , NP_067589.1
RefSeq Size:	1482 bp
RefSeq ORF:	1173 bp
Locus ID:	59086
UniProt ID:	P17246
Cytogenetics:	1q21
MW:	44.3 kDa
Gene Summary:	binds the TGFbeta receptor; plays a role in regulation of cell growth and proliferation; induces synthesis of extracellular matrix proteins and may play a role in fibrosis [RGD, Feb 2006]

Product images:



Circular map for RR214950