

Product datasheet for **MC216976**

Tgfbr1 (NM_009370) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgfbr1 (NM_009370) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tgfbr1
Synonyms:	AL; Alk; Alk-5; ALK5; AU017191; ESK2; Tbet; Tbeta; TbetaR-I; TbetaRI; TGFR-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216976 representing NM_009370
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCGGCCGCCGCTGCTCCACGTCGTCGACGCTCCTCATCGTGTGGTGGCGGCCGCGACGCTGC
 TCCCGGGGGCGAAGGCATTACAGTGTCTGCCACCTCTGTACAAAGGATAATTTTACCTGTGAGACAGA
 TGGTCTTTGCTTTGTCTCAGTCACTGAGACCACAGACAAAGTTATACACAATAGTATGTGTATAGCTGAA
 ATTGACCTAATTCCTCGAGACAGGCCATTTGTATGTGCACCATCTTCAAAAAACAGGGCAGTTACTACAA
 CATATTGTGCAATCAGGACCACTGCAATAAATAAGAACTCCCAACTACAGGACCTTTTTTCAGAAAAAGCA
 GTCAGCTGGCCTTGGTCTGTGGAGCTGGCAGCTGTCATTGCTGGTCCAGTCTGCTTCGCTGCATTGCA
 CTTATGCTGATGGTCTATATCTGCCATAACCGCACTGTCATTACCACCGTGTGCCAAATGAAGAGGATC
 CATCACTAGATCGCCCTTCATTTTCAGAGGGCACCACCTTAAAAGATTTAATTTATGATATGACAACATC
 AGGGTCTGGATCAGGTTTACCCTGCTTGTTCAAAGAACAATTGCCAGGACCATTTGTTACAAGAAAGC
 ATTTGGCAAAGGTCGGTTTGGAGAAGTTTGGCGAGGCAAAATGGCGGGGAGAAGAAGTTGCTGTGAAGATAT
 TCTCTTCTAGAGAAGAGCGTTTATGTTCCGAGAGGCAGAGATTTATCAGACTGTAATGTTACGCCATGA
 AAATATCCTGGGATTTATAGCAGCAGACAACAAAGACAATGGGACATGGACGCACTGTGGTTGGTGTCA
 GATTATCATGAGCATGGATCCCTTTTCGATTACTTGAATAGATACACTGTTACTGTGGAAGGAATGATCA
 AGCTTGTCTGTCCACAGCAAGTGGTCTTGCCCATCTTCACATGGAGATTGTTGGTACCCAAGGAAAACC
 AGCTATTGCCCATAGAGATTTGAAATCAAAGAATATCTTGGTGAAGAAAAATGGAACCTGTTGTATTGCA
 GACTTGGGACTTGGTGTGAGACATGATTCTGCCACAGATACAATTGATATTGCTCCAAACCACAGAGTAG
 GCACTAAAAGGTACATGGCCCTGAAGTTCTAGATGATCCATAAATATGAAACATTTTGAATCCTTCAA
 ACGCGCTGACATCTATGCAATGGGCTTAGTGTCTGGGAAATTCGTCGACGCTGTTCTATTGGTGGAAATC
 CATGAAGACTATCAGTTGCCCTTATATGATCTTGTACCTTCTGATCCATCGGTTGAAGAAATGAGAAAAG
 TAGTTTGCGAACAGAAGTTAAGGCCAAATATCCAAACAGATGGCAGAGCTGTGAGGCCTTGAGAGTGAT
 GGCTAAAATATGAGAGAATGCTGGTATGCCAATGGAGCAGCAAGGCTGACAGCTTTGCCAATAAAAAA
 ACATTGTCACAACCTCAGCCAACAGGAAGGCATCAAATG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3024_f11.zip

Restriction Sites: SgfI-MluI

ACCN: NM_009370

Insert Size: 1512 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_009370.3](#), [NP_033396.1](#)

RefSeq Size: 5735 bp

RefSeq ORF: 1512 bp

Locus ID: 21812

UniProt ID: [Q64729](#)

Cytogenetics: 4 26.02 cM

Gene Summary: This gene encodes a member of the transforming growth factor beta (TGF-beta) receptor family of proteins. These proteins comprise one component of the TGF-beta signaling pathway, which transduces extracellular signals into gene expression changes to regulate a wide range of cellular responses, including proliferation, migration, differentiation and apoptosis. Homozygous knockout mice for this gene exhibit impaired angiogenesis and embryonic lethality. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).