

Product datasheet for **MR208091**

Tgfbr1 (NM_009370) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgfbr1 (NM_009370) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



[View online »](#)

ORF Nucleotide Sequence:

>MR208091 representing NM_009370
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGCGGCGCCGCTGCTCCACGTCGTCGACGCTCCTCATCGTGTGGTGGCGGCGGCGACGCTGC
 TCCCGGGGCGAAGGCATTACAGTGTCTGCCACCTCTGTACAAAGGATAATTTTACCTGTGAGACAGA
 TGGTCTTTGCTTTGTCTCAGTCACTGAGACCACAGACAAAGTTATACACAATAGTATGTGTATAGCTGAA
 ATTGACCTAATTCCTCGAGACAGGCCATTTGTATGTGCACCATCTTCAAAAAACAGGGCAGTTACTACAA
 CATATTGTGCAATCAGGACCACTGCAATAAAATAGAAGTCCCAACTACAGGACCTTTTTTCAGAAAAAGCA
 GTCAGCTGGCCTTGGTCTGTGGAGCTGGCAGCTGTCATTGCTGGTCCAGTCTGCTTCGCTGCATTGCA
 CTTATGCTGATGGTCTATATCTGCCATAACCGCACTGTCATTACCACCGTGTGCCAAATGAAGAGGATC
 CATCACTAGATCGCCCTTCATTTAGAGGGCACCACCTTAAAAGATTTAATTTATGATATGACAACATC
 AGGGTCTGGATCAGGTTTACCCTGCTTGTCAAAGAACAATTGCCAGGACCATTTGTGTTACAAGAAAGC
 ATTTGGCAAAGGTCGGTTTGGAGAAGTTTGGCGAGGCAAAATGGCGGGGAGAAGAAGTTGCTGTGAAGATAT
 TCTCTTCTAGAGAAGAGCGTTTATGGTCCGAGAGGCAGAGATTTATCAGACTGTAATGTTACGCCATGA
 AAATATCCTGGGATTTATAGCAGCAGACAACAAAGACAATGGGACATGGACGCGAGCTGTGGTTGGTGTCA
 GATTATCATGAGCATGGATCCCTTTTCGATTACTTGAATAGATACACTGTTACTGTGGAAGGAATGATCA
 AGCTTGTCTGTCCACAGCAAGTGGTCTTGCCCATCTTCACATGGAGATTGTTGGTACCCAAGGAAAACC
 AGCTATTGCCATAGAGATTTGAAATCAAAGAATATCTTGGTGAAGAAAAATGGAACCTGTTGTATTGCA
 GACTTGGGACTTGTGTGAGACATGATTCTGCCACAGATACAATTGATATTGCTCCAAACCACAGAGTAG
 GCACTAAAAGGTACATGGCCCTGAAGTCTAGATGATTCCATAAATGAAACATTTTGAATCCTTCAA
 ACGCGCTGACATCTATGCAATGGGCTTAGTGTTCTGGGAAATGCTCGACGCTGTTCTATTGGTGAATC
 CATGAAGACTATCAGTTGCCTTATTATGATCTTGTACCTTCTGATCCATCGGTTGAAGAAATGAGAAAAG
 TAGTTTGCGAACAGAAGTTAAGGCCAAATATTCCAAACAGATGGCAGAGCTGTGAGGCCTTGAGAGTGAT
 GGCTAAAATTATGAGAGAATGCTGGTATGCCAATGGAGCAGCAAGGCTGACAGCTTTGCCAATAAAAAA
 ACATTGTCACAACCTAGCCAACAGGAAGGCATCAAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208091 representing NM_009370
 Red=Cloning site Green=Tags(s)

MEAAAAAPRRPQLLIVLVAATLLPGAKALQCFCHLCTKDNFTCETDGLCFVSVTETTDKVIHNSMCIAE
 IDLIPRDRPFVCPSSKTAGVTTTTYCCNQDHCNKIELPTTGPSEKQSAGLGPVELAAVIAGPVCFCVIA
 LMLMYYICHNRVTIHRVPNEEDPSLDRPFI SEGTTLKDLIYDMTTS GSGSGLPLL VQRTIARTIVLQES
 IGKGRFGEVWRGKWRGEEVAVKIFSSREERSWFREAEIYQTVMLRHENILGFI AADNKDNGTWTQLWLV
 DYHEHGS LFDYLNRYTVTVEGMIK LALSTASGLAHLHMEIVGTQGKPAIAHRDLKSKNILVKKNGTCCIA
 DLGLAVRHDSATDTIDIAPNHRVGTKRYMAPEVLDD SINMKHFESFKRADIYAMGLVFWEIARRCSIGGI
 HEDYQLPYDDLVPSPSVEEMRKVVCEQKLRPNIPNRWQSCEALRVMAKIMRECWYANGAARLTALRIKK
 TLSQLSQEGIKM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9010_b08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_009370

ORF Size: 1509 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_009370.3](#), [NP_033396.1](#)
RefSeq Size: 5735 bp

RefSeq ORF: 1512 bp

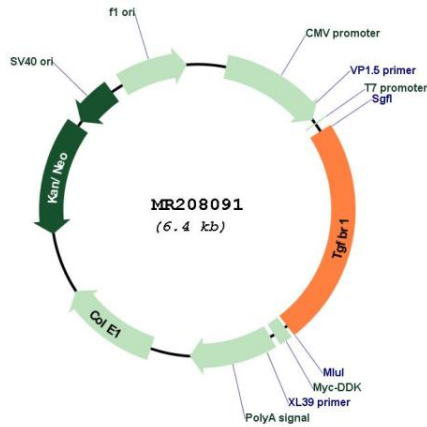
Locus ID: 21812

UniProt ID: [Q64729](#)
Cytogenetics: 4 26.02 cM

MW: 56.6 kDa

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]

Product images:



Circular map for MR208091