

Product datasheet for **MR229576**

Tgfb1i1 (NM_001289552) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tgfb1i1 (NM_001289552) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tgfb1i1
Synonyms: ARA55; hic-5; Hic5; TSC-5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR229576 representing NM_001289552
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCAGCCACAGACAGGGTCTGGAGAATCTTCAGGAACCACTGGGGACAAGGATCATCTATACAG
 ATGAAATCATGTCTCAGTCCCATCTAGTAAAATGGCTGAAGGGGAAGAGAAGGAGGACCAATCTGAAGA
 CAAGAGCTCACCACTGTCCCTCCAGCCATTCCCTGCCCCCTCAAAGCCTTCAGCCACCTCCGCCACT
 CAGGAAGTGGATAGACTGATGGCCTCGCTCTGACTTCCGTGTTCAGAACCATCTCCAGCCTCAGGGC
 CACCTCAGCCTCCAGCAGCGAGCCCAACCGTGAAGGATGCCATCTCCACCAGGACAGACTAGCAAAGG
 CAGTCTGGACACCATGCTGGGCCTGCTGACGTCTGACCTCAGCCGTCGTGGTGTCCCACACAGGCCAAA
 GGCTCTGTGGCTCCTGCAATAAACCTATAGCTGGGCAAGTGGTTACAGCCCTGGGCAGAGCCTGGCACC
 CGGAGCACTTCCTTTGCAGCGGTTGTTCCACAACCCTGGGAGGCAGCAGCTTCTTCGAGAAGGATGGGGC
 TCCCTTTTGCCTCGAGTGTACTTTGAGCGCTTCTCCCAAGATGTGGCTTCTGTAACCAACCAATCCGA
 CAAAAATGGTTACCGCCTTGGGCACCACTGGCACCCAGAACATTTCTGCTGCGTCAGCTGCGGAGAGC
 CTTTTGGAGAAGAGGTTCCACGAGCGGGAGGGTCGTCCTGACTGCCGGCGGGACTTCTGCAGCTGTT
 CGCCCCACGCTGCCAGGGCTGCCAAGGCCATTTTGGATAACTACATCTCGGCACTCAGCGCGCTCTGG
 CACCCAGACTGCTTCGTGTGCAGGGAATGCCTTGCGCCCTTCTCCGGAGGCAGCTTTTTTGGAGCAGAGG
 GTCGCCCTTTGTGTGAAAACATTTCCATGCTCAGCGTGGTTCGCTGTGTGCCAGGTGTGGTCTCCAGT
 GACCGGCCGCTGTGTGTCGCTCTGGGCGACGCTTCCATCCAGACCACTTCACCTGCACATTCTGCCTG
 CGCCCACTACCAAAGGCTCCTTCCAGGAGCGGCCAGCAAGCCTTACTGCCAGCCTTGCTTCTGAAGC
 TCTTCGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229576 representing NM_001289552
 Red=Cloning site Green=Tags(s)

MATSHRQGLENLQEPLGTRIIYTDEIMSQFPSSKMAEGEEKEDQSEDKSSPTVPPSPFPAPSKPSATSAT
 QELDRLMASLSDFRVQNHLPASGPPQPPAASPTREGCPSPPGQTSKGLDMLGLLQSDL SRRGVPTQAK
 GLCGSCNKPIAGQVVTALGRAWHPEHFLCSGCSTTLGGSSFFEKDGAPFCPECYFERFSPRCGFCNQPIR
 HKMVTALGTHWHPEHFCVSCGEPEFGEEGFHEREGRPYCRRDFLQLFAPRCQGCQPILDNYISALSALW
 HPDCFVCRECLAPFSGGSFFEHEGRPLCENHFHAQRGSLCATCGLPVTGRCVSALGRRFHPDHFTCTFCL
 RPLTKGSFQERASKPYCQPCFLKFLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001289552

ORF Size: 1128 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_001289552.1](#), [NP_001276481.1](#)

RefSeq Size: 3761 bp

RefSeq ORF: 1131 bp

Locus ID: 21804

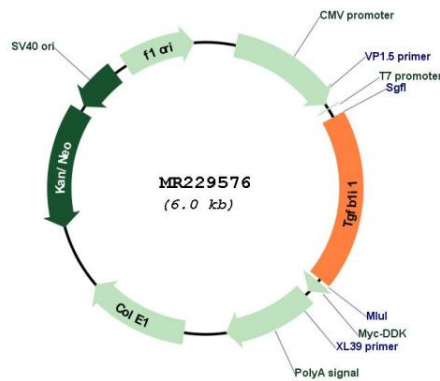
UniProt ID: [Q62219](#)

Cytogenetics: 7 F3

MW: 41.7 kDa

Gene Summary: Functions as a molecular adapter coordinating multiple protein-protein interactions at the focal adhesion complex and in the nucleus. Links various intracellular signaling modules to plasma membrane receptors and regulates the Wnt and TGFB signaling pathways. May also regulate SLC6A3 and SLC6A4 targeting to the plasma membrane hence regulating their activity. In the nucleus, functions as a nuclear receptor coactivator regulating glucocorticoid, androgen, mineralocorticoid and progesterone receptor transcriptional activity. May play a role in the processes of cell growth, proliferation, migration, differentiation and senescence. May have a zinc-dependent DNA-binding activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229576