

Product datasheet for **MG207081**

Tgfb1i1 (NM_009365) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgfb1i1 (NM_009365) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tgfb1i1
Synonyms:	ARA55; hic-5; Hic5; TSC-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207081 representing NM_009365
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCACGGTTAGGGGCTCCAAAAGAGCGCCACCAGAGACACTCACACCTCCCCACCCTATGGCCACC
 AGCCACAGACAGGGTCTGGAGAATCTTCAGGAACCACTGGGGACAAGGATCATCTATACAGCACAGTATG
 CAAGCCTCGGTCCCCAAAGCCTGTGGCCCTGTGGCTCCTCCATTCTCCTCTTCCAGTGGTGTGTTGGG
 AATGGCCTCTGTGAGCTAGACCGTTTGCTTTCAGGAACCTAATGCCACCCAGTTCAACATTACAGATGAAA
 TCATGTCTCAGTCCCCTAGTAAAAATGGCTGAAGGGGAAGAGAAGGAGGACCAATCTGAAGACAAGAG
 CTCACCCACTGTCCCTCCAGCCATTCCCTGCCCCCTCAAAGCCTTCAGCCACCTCCGCCACTCAGGAA
 CTGGATAGACTGATGGCCTCGCTCTGACTTCCGTGTTTCCAGCCATCTCCAGCCTCAGGGCCACCTC
 AGCCTCCAGCAGCGAGCCCCACCGTGAAGGATGCCATCTCCACCAGGACAGACTAGCAAAGGCAGTCT
 GGACACCATGCTGGCCCTGCTGACCTGACCTCAGCCGTGCTGGTGTCCCACACAGGCCAAAGGCCTC
 TGTGGCTCCTGCAATAAACCTATAGCTGGGCAAGTGGTTACAGCCCTGGGCAGAGCCTGGCACCCGGAGC
 ACTTCCTTTGACGCGTTGTTCCACAACCTGGGAGGCAGCAGCTTCTCGAGAAGGATGGGGCTCCCTT
 TTGCCCGAGTGTACTTTGAGCGCTTCTCCCCACGATGTGGCTTCTGTAACCAACCCATCCGACACAAA
 ATGGTTACCGCCTTGGGCACCCACTGGCACCCAGAACAATTTCTGCTGCGTCAGCTGCGGAGAGCCTTTTG
 GAGAAGAGGGTTTCCACGAGCGGGAGGGTCTGCTGACTGCCGGCGGGACTTCTGACAGCTGTTCCGCCC
 ACGCTGCCAGGGTGTCCAAGGCCATTTTTGGATAACTACATCTCGGCACTCAGCGCGCTCTGGCACCCA
 GACTGCTTCGTGTGCAGGAATGCCTTGGCCCTTCTCCGGAGGCAGCTTTTTTGGACACGAGGGTCCGC
 CTTTGTGTGAAAACCATTTCCATGCTCAGCGTGGTTCGCTGTGCCACGTGTGGTCTCCAGTACCCGG
 CCGCTGTGTCCGCTCTGGGCCGACGCTTCCATCCAGACCACTTCCAGTGCACATTCTGCTGCGCCCA
 CTCACCAAGGCTCCTTCCAGGAGCGGCCAGCAAGCCTTACTGCCAGCCTTGCTTCTGAAGCTCTTCG
 GC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207081 representing NM_009365
 Red=Cloning site Green=Tags(s)

MSRLGAPKERPPETLTPPPPYGHQPQTGSGESSGTTGDKDHLYSTVCKPRSPKPVAPVAPPFSSSSGVLG
 NGLCELDRLQLLNATQFNITDEIMSQFPSSKMAEGEEKEDQSEDKSSPTVPPSPFPAPSKPSATSATQE
 LDRLMASLSDFRVQNHLPASGPPQPPAASPTREGCPSPPGQTSKGLDMLGLLQSDLRRGVPTQAKGL
 CGSCNKP IAGQVVTALGRAWHPEHFLCSGCSTTLGGSSFFEKDGAPFCPECYFERFSPRCGFCNQPIRHK
 MVTALGTHWHPEHFCVSCGEPFGEEGFHEREGRPYCRRDFLQLFAPRCQGCQGPILDNYISALSALWHP
 DCFVCRECLAPFSGGSFFEHEGRPLCENHFHAQRGSLCATCGLPVTGRCVSALGRRFHPDHFTCTFCLRP
 LTKGSFQERASKPYCQPCFLKFLG

TRTRPLE - GFP Tag - V

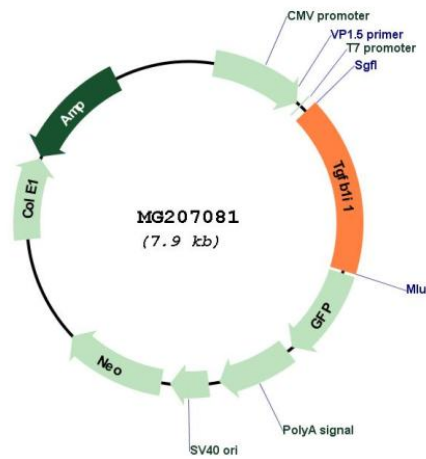
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_009365

ORF Size:

1332 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:	<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:	<u>NM_009365.2</u> , <u>NP_033391.1</u>
RefSeq Size:	3058 bp
RefSeq ORF:	1335 bp
Locus ID:	21804
Cytogenetics:	7 F3
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 TGF β 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]