

## Product datasheet for **MR210951**

### **Tgfbr3 (NM\_011578) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tgfbr3 (NM_011578) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tgfbr3
Synonyms:	1110036H20Rik; AU015626; AW215636; TBR111
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210951 representing NM\_011578  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGTGACATCCCACCACATGGTCCCTGTGTTTGTCTGATGAGCGCCTGCCTGGCCACCCGAGGTC  
 CAGAGCCCAGCACCCGGTGTGAAGTGTACCGATCAGTGCCTCTCATCCAGTCCAGGCCCTGATGGAGAG  
 CTTACCGTTCTGTCTGGCTGTGCCAGCAGAGGCCACTGGGCTGCCAAGGGAGGTTCCATCCTAAAC  
 CTCGCGAGTACAGACCAAGGACTAGGCCAGCCGACAGAGAGGTTACCCTGCATCTGAACCCATTGCCCT  
 CCGTGCACACTCACACAAGCCTGTTGTCTCTGCTCAACTCCCACAGCCCCTGGTGTGGCATGTGAA  
 GACAGAGAGACTGGTGTGGTGTCCCAGACTTTCCTGGTTTCGGAGGGTTCTGTGGTCCAGTTTTCA  
 TCAGGAACTTCTCCTTGACAGCAGAAACAGAGAAAGGAGTTTCCCTCAAGAAAATGAGCATCTGCTAC  
 ACTGGGCCAAAAGGAATATGGAGCAGTACTTCATTACCGAATTAAGATAGCAAGAAAATATCTATAT  
 TAAAGTGGGAGAAGATCAAGTGTCCCTCCCACGTGAACATAGGGAAAAATTTCTCTCGCTCAATTAC  
 CTTGCGGAGTACCTTCAACCCAAAGCCGCCGAAGGTTGTGTCCTGGCCAGTCAGCCCACGAGAAGGAAG  
 TGCATATCATTGAGTAACTCCTCCCAACTCCAATCCTTACAGCACCTTCCAGGTGGATATAATAATTGA  
 CATACGACTGTCTCGAGAGGATCCTGAGGTGGTCAAAAACCTCGTCTGATCTTGAAGTGCAAAAAATCT  
 GTCAACTGGGTGATCAAGTCTTTGACGTCAAGGGAAACTTGAAGTTATTGCTCCTGACAGTATTGGCT  
 TTGGAAAAGAGAGTGAACGATCCATGACAGTGACCAAAATGGTAAGAAAATGACATCCCTTCCACCCAAGA  
 GAATCTGATGAAGTGGCATTGGACAATGGCTACAGCCCAGTGACGTCAACACCATAGCTCCTGTGGCC  
 AATAGATTTTCTCGCTTGGAGAACACGAGGAGATGAGAGATGAGGAAGTCCACACCATTCCTCTCTG  
 AGCTTCGGATCCTGCTGGGCCCTGACCACCTGCCCTGGCAGGCCATCCTTCCAAGGGGAAATCCC  
 AAATGGAGGTTTTCCCTTCCCATTCCCAGATATCCCAGGAGAGGCTGGAAGGAGGAGAAGATAGGATC  
 CCCCAGCCAAAGGAACCCATCATTCCCAGAGTTCAATTGCTTCCAGACCACAGAGAGCCAGAAGAAGTGC  
 AAGGGGGCGTGAATATCGCCCTGTGAGTCAATGTGACAAATGAAAAGATGGTGGTAGCTGTAGACAAAGA  
 TTCTTTCCAGACCAATGGCTACTCGGGGATGGAGCTCACCTGTTGGATCCTTCTGCAAAGCCAAGATG  
 AATGGTACCCACTTTGACTGGAGTCTCCGCTGAATGGCTGTGGTACTAGACATAGGAGGTGAGCCCGAG  
 ATGGTGTGGTTTACTATAACTCTATTGTGGTGCAGGCTCCATCCCCTGGGATAGCAGTGGCTGGCCAGA  
 CGGCTACGAAGATTTGGAGTCGGGTGATAATGGATTTCTGGAGACACAGATGAAGGAGAAACTGCCCCC  
 CTGAGCCGTGCTGGAGTGGTAGTGTAACTGCAGCTTGGCCAGCTGAGGAGTCCAGTGGCTTCCAGG  
 ACCAGCTCGATGGAAATGCTACCTTCAACATGGAGCTGTATAACACAGACCTTTTCTGGTGCCCTCCCC  
 AGGGGTCTTCTGTGGCAGAGAATGAGCATGTATATGTTGAGGTGTCTGTCACTAAGGTGACCAAGAT  
 CTGGGATTTGCCATCAAACCTGCTTTATCTCTCCATACTCAAACCCAGACAGAATGTCTGATTACACCA  
 TCATCGAGAACATCTGTCCGAAGGATGACTCTGTGAAGTTCTACAGCTCCAAGAGAGTGCATTTCCCAT  
 CCCACATGCTGAAGTGGACAAGAAGCGGTTGAGCTTTGTGTTCAAGTCCGTGTTCAACACCTCCCTGCTC  
 TTCCTGCACTGCGAGCTGACGCTGTGCTTAGGAAGAAGGGCTCCAGAAGCTGCCAAAGTGTGTGACTC  
 CTGACGACGCTGCACCTCTCTAGATGCCACCATGATCTGGACCATGATGCAGAATAAGAAGACATTAC  
 CAAGCCCCTGGCGTGGTCCCAAGTAGATTATAAAGAAAATGTTCAAACATGAAGGAGTCCAGTCCG  
 GTTCTCTCTCCACAGATTTTCCACGGCTGGACACGCTCACCGTATGGGCATTGCGTTTTGACAGCAT  
 TTGTGATCGGAGCACTCCTGACGGGGCCTTGTGGTATATCTACTCCACACAGGGGAGACGGCACGAAG  
 GCAGCAAGTCCCTACCTCGCCACCAGCCTCGGAGAACAGCAGCGCAGCCACAGCATAGGGAGCACTCAG  
 AGCACTCCTGCTCTAGCAGCAGCACGGCC

**ACGGT**ACGGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210951 representing NM\_011578  
 Red=Cloning site Green=Tags(s)

MAVTSHHMVPVFLMSACLATAGPEPSTRCELSPISASHPVQALMESFTVLSGCASRGTGLPREVHILN  
 LRSTDQGLGQPQREVTLHLNPIASVHTHHKPVVFLNSPQPLVWHVKTERLAAGVPRFLVSEGSVVQFS  
 SGNFSLTAETEERSFPQENEHLHWAQKEYGAVTSFTELKIARNIYIKVGEDQVFPPTCNIGKNFLSLNY  
 LAEYLQPKAAEGCVLASQPHEKEVHIIEILISPNSNPYSTFQVDIIIDIRPAREDPEVVKNLVLILKCKKS  
 VNWWIKSFDVKGNLKVIAPDSIGFGKESERSMTVTKLVRNDIPSTQENLMKWALDNGYSPVTSYTIAPVA  
 NRFHLRLLENNEEMRDEEVHTIPPELRIILLGPDHLPALDSPSFQGEIPNGGFPPFPDIPRRGWKEGEDRI  
 PRPKEIIPRVQLLPDHREPEEVQGGVNIASVKCDNEKMVAVDKDSFQTNGYSGMELTLLDPSCAKM  
 NGTHFVLESPLNGCGRHRSAPDGVVYNSIVVQAPSPGDSSGWPDPGYEDLESGDNGFPGDTDEGETAP  
 LSRAGVVVFNCSLRQLRSPSGFQDQLDGNATFMELYNTDLFLVSPGVFSAENEHVYVEVSVTKADQD  
 LGFAIQTCFISPYSNPDRMSDYTIENICPKDDSVKIFYSSKRVHFPPIPHAEVDKRRFSFVFKSVFNTSLL  
 FLHCELTLCSRKKGSQKLPKCVTPDDACTSLDATMIWTMMQNKKTFTKPLAVVLQVDYKENVPMKKESSP  
 VPPPPQIFHGLDTLVMGIAFAAFVIGALLTGALWYIYSHTGETARRQVPTSPPASENSAHSIGSTQ  
 STPCSSTSTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9006\\_a04.zip](https://cdn.origene.com/chromatograms/mm9006_a04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

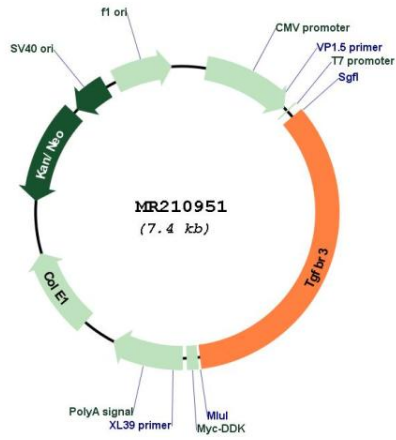
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_011578
<b>ORF Size:</b>	2550 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_011578.4</a>
<b>RefSeq Size:</b>	6074 bp
<b>RefSeq ORF:</b>	2553 bp
<b>Locus ID:</b>	21814
<b>UniProt ID:</b>	<a href="#">O88393</a>
<b>Cytogenetics:</b>	5 E5
<b>MW:</b>	94.2 kDa
<b>Gene Summary:</b>	Binds to TGF-beta. Could be involved in capturing and retaining TGF-beta for presentation to the signaling receptors (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210951