

## Product datasheet for **MC209523**

### **Tgfb3 (NM\_009368) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tgfb3 (NM_009368) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tgfb3
Synonyms:	TGF-beta-3; Tgfb-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209523 representing NM_009368 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGAAGATGCACTTGCAAAGGGCTCTGGTAGTCCTGGCCCTGCTGAACTTGGCCACAATCAGCCTCTCTC  
TGTCCTTGCACCAGTTGGACTTCGGCCACATCAAGAAGAAGAGGGTGAAGCCATTAGGGGACAGAT  
CTTGAGCAAGCTCAGGCTCACCAGCCCCCTGAGCCATCGGTGATGACCCACGTCCCCTATCAGGTCCTG  
GCACTTTACAACAGCACCCGGGAGTTGCTGGAAGAGATGCACGGGAGAGGGAGGAAGGCTGCACTCAGG  
AGACCTCGGAGTCTGAGTACTATGCCAAAGAGATCCATAAATTCGACATGATCCAGGGACTGGCGGAGCA  
CAATGAACTGGCCGTCTGCCCAAAGGAATTACCTCTAAGGTTTTTCGTTTCAATGTGTCTCAGTGGAG  
AAAAATGGAACCAATCTGTTCCGGGCAGAGTTCGGGTCTTGGGGTGCCCAACCCAGCTCCAAGCGCA  
CAGAGCAGAGAATTGAGCTCTTCCAGATACTTCGACCGGATGAGCACATAGCCAAGCAGCGCTACATAGG  
TGGCAAGAATCTGCCACAAGGGGCACCGCTGAATGGCTGTCTTCGATGTCACTGACACTGTGCGCGAG  
TGGCTGTTGAGGAGAGTCCAACCTGGGTCTGGAATCAGCATCCACTGTCCATGTACACCTTTCAGC  
CCAATGGAGACATACTGGAAATGTTTCATGAGGTGATGGAATCAAATCAAAGGAGTGGACAATGAAGA  
TGACCATGGCCGTGGAGACCTGGGGCTCTCAAGAAGCAAAAGGATCACCACAACCCACACCTGATCCTC  
ATGATGATCCCCCACACCGACTGGACAGCCAGGCCAGGCAGTCAGAGGAAGAAGAGGGCCCTGGACA  
CCAATTACTGCTTCCGCAACCTGGAGGAGAACTGCTGTGTACGCCCTTTATATTGACTTCGGGCAGGA  
TCTAGGCTGGAATGGGTCCACGAACCTAAGGGTTACTATGCCAACTTCTGCTCAGGCCCTTGCCCATAC  
CTCCGACGCGCAGACACAACCCATAGCACGGTGTCTGGACTATACAACACCCTGAACCCAGAGGCGTCTG  
CCTCGCCATGCTGCGTCCCCAGGACCTGGAGCCCTGACCATCTTGTACTATGTGGGCAGAACCCCAA  
GGTGGAGCAGCTGTCCAACATGGTGGTGAAGTCGTGTAAGTGCAGCT**GA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Chromatograms:</b>	<a href="https://cdn.origene.com/chromatograms/ja2269_c10.zip">https://cdn.origene.com/chromatograms/ja2269_c10.zip</a>
<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_009368
<b>Insert Size:</b>	1239 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>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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_009368.3</a> , <a href="#">NP_033394.2</a>
<b>RefSeq Size:</b>	3401 bp
<b>RefSeq ORF:</b>	1239 bp
<b>Locus ID:</b>	21809
<b>Cytogenetics:</b>	12 40.09 cM

**Gene Summary:**

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. This protein is involved in embryogenesis and cell differentiation, and may play a role in wound healing. Homozygous knockout mice for this gene exhibit cleft palate, delayed pulmonary development and neonatal death. [provided by RefSeq, Aug 2016]