

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**CGGATCGCC**

ATGAAGATGCACTTGCAAAGGGCTCTGGTAGTCTGGCCCTGCTGAACTTGGCCACAATCAGCCTCTCTC
 TGTCCACTTGACCACGTTGGACTTCGGCCACATCAAGAAGAAGAGGGTGGAAAGCCATTAGGGGACAGAT
 CTTGAGCAAGCTCAGGCTCACCAGCCCCCTGAGCCATCGGTGATGACCCACGTCCCCTATCAGGTCCTG
 GCACTTTACAACAGCACCCGGGAGTTGCTGGAAGAGATGCACGGGAGAGGGAGGAAGGCTGCACTCAGG
 AGACCTCGGAGTCTGAGTACTATGCCAAAGAGATCCATAAATTCGACATGATCCAGGGACTGGCGGAGCA
 CAATGAACTGGCCGTCTGCCCAAAGGAATTACCTCTAAGGTTTTTCGTTTTCAATGTGTCCTCAGTGGAG
 AAAAAATGGAACCAATCTGTTCCGGGCAGAGTTCGGGTCTTGGCGGTGCCCAACCCAGCTCCAAGCGCA
 CAGAGCAGAGAATTGAGCTCTTCCAGATACTTCGACCGGATGAGCACATAGCCAAGCAGCGCTACATAGG
 TGGCAAGAATCTGCCACAAGGGCACCCTGAATGGCTGCTTTTCGATGCTACTGACACTGTGCGCGAG
 TGGCTGTTGAGGAGAGTCCAACCTGGGTCTGGAAATCAGCATCCACTGTCCATGTACACCTTTCAGC
 CCAATGGAGACATACTGGAAAATGTTTCATGAGGTGATGGAAATCAAATTCAAAGGAGTGGACAATGAAGA
 TGACCATGGCCGTGGAGACCTGGGGCTCTCAAGAAGCAAAGGATCACCACAACCCACACCTGATCCTC
 ATGATGATCCCCCACCCGACTGGACAGCCCAGGCCAGGCAGTCAGAGGAAGAAGAGGGCCCTGGACA
 CCAATTACTGCTTCCGCAACCTGGAGGAGAATGCTGTGTACGCCCTTTATATTGACTTCCGGCAGGA
 TCTAGGCTGGAATGGGTCCACGAACCTAAGGGTACTATGCCAACTTCTGCTCAGGCCCTTGCCATAC
 CTCCGAGCGCAGACACAACCCATAGCACGGTGTGGACTATACAACCCCTGAACCCAGAGGGCTCTG
 CCTCGCCATGCTGCGTCCCCAGGACCTGGAGCCCCTGACCATCTGTACTATGTGGCAGAACCCCAA
 GGTGGAGCAGCTGCCAACATGGTGGTGAAGTCGTGAAGTGCAGCTGA

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Chromatograms:	https://cdn.origene.com/chromatograms/ja2269_c10.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_009368
Insert Size:	1239 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	NM_009368.3 , NP_033394.2
RefSeq Size:	3401 bp
RefSeq ORF:	1239 bp
Locus ID:	21809
Cytogenetics:	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]