

## Product datasheet for **SC302306**

### TGF beta Receptor II (TGFB2) (NM\_001024847) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TGF beta Receptor II (TGFB2) (NM_001024847) Human Untagged Clone
Tag:	Tag Free
Symbol:	TGF beta Receptor II
Synonyms:	AAT3; FAA3; LDS1B; LDS2; LDS2B; MFS2; RIIC; TAAD2; TBR-ij; TBRII; TGFbeta-RII; TGFR-2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001024847 edited  
 ATGGGTCGGGGGCTGCTCAGGGGCTGTGGCCGCTGCACATCGTCCTGTGGACGCGTATC  
 GCCAGCACGATCCCACCGCACGTTTCAGAAGTCGGATGTGGAAATGGAGGCCAGAAAGAT  
 GAAATCATCTGCCCCAGCTGTAATAGGACTGCCATCCACTGAGACATATTAATAACGAC  
 ATGATAGTCACTGACAACAACGGTGCAGTCAAGTTTCCACAACGTGTAATTTTGTGAT  
 GTGAGATTTTCCACCTGTGACAACCAGAAATCCTGCATGAGCAACTGCAGCATCACCTCC  
 ATCTGTGAGAAGCCACAGGAAGTCTGTGTGGCTGTATGGAGAAAGAATGACGAGAACATA  
 ACACTAGAGACAGTTTGCCATGACCCCAAGCTCCCTACCATGACTTTATTCTGGAAGAT  
 GCTGCTTCTCAAAGTGCATTATGAAGGAAAAAAAAAAGCCTGGTGAGACTTTTTCATG  
 TGTTCCTGTAGCTCTGATGAGTGAATGACAACATCATCTTCTCAGAAGAATATAACACC  
 AGCAATCCTGACTTGTGCTAGTCATATTTCAAGTGACAGGCATCAGCCTCCTGCCACCA  
 CTGGGAGTTGCCATATCTGTCATCATCTTCTACTGTACCGCGTTAACCGGCAGCAG  
 AAGCTGAGTTCAACCTGGGAAACCGGCAAGACGCGGAAGCTCATGGAGTTCAGCGAGCAC  
 TGTGCCATCATCCTGGAAGATGACCGCTCTGACATCAGCTCCACGTGTGCCAACACATC  
 AACCAACACAGAGCTGCTGCCATTGAGCTGGACACCCTGGTGGGAAAGGTCGCTTT  
 GCTGAGGTCTATAAGGCCAAGCTGAAGCAGAACACTTCAGAGCAGTTTGAGACAGTGCCA  
 GTCAAGATCTTCCCTATGAGGAGTATGCCTCTTGAAGACAGAGAAGGACATCTTCTCA  
 GACATCAATCTGAAGCATGAGAACAATACTCCAGTTCCTGACGGCTGAGGAGCGGAAGACG  
 GAGTTGGGGAAACAATACTGGCTGATCACCGCCTTCCACGCCAAGGGCAACCTACAGGAG  
 TACCTGACGCGGCATGTCATCAGCTGGGAGGACCTGCGCAAGCTGGGCAGCTCCCTCGCC  
 CGGGGATTGCTAACCTCCACAGTGATCACACTCCATGTGGGAGGCCAAGATGCCCATC  
 GTGCACAGGGACCTCAAGAGCTCCAATATCCTCGTGAAGAACGACCTAACCTGCTGCCTG  
 TGTGACTTTGGGCTTCCCTGCGTCTGGACCCTACTCTGTCTGTGGATGACCTGGCTAAC  
 AGTGGGCAGGTGGGAAGTGAAGATACATGGCTCCAGAAGTCCAGAAATCCAGGATGAAT  
 TTGGAGAATGTTGAGTCCTTCAAGCAGACCGATGTCTACTCCATGGCTCTGGTGTCTGG  
 GAAATGACATCTCGTGTAAATGCAGTGGGAGAAGTAAAAGATTATGAGCCTCCATTTGGT  
 TCCAAGGTGCGGGAGCACCCCTGTGTCGAAAGCATGAAGGACAACGTGTTGAGAGATCGA  
 GGGCGACCAGAAATCCCAGCTTCTGGCTCAACCACCAGGGCATCCAGATGGTGTGTGAG  
 ACGTTGACTGAGTGTGGGACCACGACCCAGAGGCCCTCTCACAGCCAGTGTGTGGCA  
 GAACGCTTCAGTGTGAGCTGGAGCATCTGGACAGGCTCTCGGGGAGGAGCTGCTCGGAGGAG  
 AAGATTCTGAAGACGGCTCCCTAAACTACCAATAG

**Restriction Sites:** Please inquire

**ACCN:** NM\_001024847

**Insert Size:** 1800 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001024847.1</a> , <a href="#">NP_001020018.1</a>
<b>RefSeq Size:</b>	4714 bp
<b>RefSeq ORF:</b>	1779 bp
<b>Locus ID:</b>	7048
<b>UniProt ID:</b>	<a href="#">P37173</a>
<b>Cytogenetics:</b>	3p24.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with TGF-beta receptor type-1, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of genes related to cell proliferation, cell cycle arrest, wound healing, immunosuppression, and tumorigenesis. Mutations in this gene have been associated with Marfan Syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. Alternatively spliced transcript variants encoding different isoforms have been characterized. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (A).</p>