

Product datasheet for **SC118072**

TGF beta Receptor II (TGFB2) (NM_003242) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGF beta Receptor II (TGFB2) (NM_003242) 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>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_003242 edited
 ATGGGTCGGGGCTGCTCAGGGGCTGTGGCCGCTGCACATCGTCTGTGGACGCGTATC
 GCCAGCACGATCCCACCGCACGTTTCCACAAGTTCAGAAAGTTCGGTTAATAACGACATGATAGTCACTGAC
 AACACCGGTGCAGTCAAGTTTCCACAAGTGTGTAATTTTGTGATGTGAGATTTTCCACC
 TGTGACAACAGAAATCCTGCATGAGCAACTGCAGCATCACCTCCATCTGTGAGAAGCCA
 CAGGAAGTCTGTGTGGCTGTATGGAGAAAGAATGACGAGAACATAAACTAGAGACAGTT
 TGCCATGACCCCAAGCTCCCCTACCATGACTTTATTCTGGAAGATGCTGCTTCTCCAAAG
 TGCATTATGAAGGAAAAAAGCCTGGTGAGACTTTTTCATGTGTTCTGTAGCTCT
 GATGAGTGCAATGACAACATCATCTTCTCAGAAGAATATAACACCAGCAATCCTGACTTG
 TTGCTAGTCATATTTCAAGTGACAGGCATCAGCCTCCTGCCACCACTGGGAGTTGCCATA
 TCTGTCTCATCATCTTCTACTGCTACCGGTTAACCGGCAGCAGAAGCTGAGTTCAACC
 TGGGAAACCGGCAAGACGCGGAAGCTCATGGAGTTCAGCGAGCACTGTGCCATCATCCTG
 GAAGATGACCGCTCTGACATCAGCTCCACGTGTGCCAACACATCAACCACAACACAGAG
 CTGCTGCCATTGAGCTGGACACCCTGGTGGGAAAGGTCGCTTTGCTGAGGTCTATAAG
 GCCAAGCTGAAGCAGAACAATTCAGAGCAGTTTGAAGCAGTGGCAGTCAAGATCTTTCCC
 TATGAGGAGTATGCCTCTTGAAGACAGAGAAGGACATCTTCTCAGACATCAATCTGAAG
 CATGAGAACAATACTCCAGTTCCTGACGGCTGAGGAGCGGAAGACGGAGTTGGGAAACAA
 TACTGGCTGATCACCGCCTTCCACGCCAAGGGCAACCTACAGGAGTACCTGACGCGGCAT
 GTCATCAGCTGGGAGGACCTGCGCAAGCTGGGCAGCTCCCTCGCCCGGGGATTGCTCAC
 CTCCACAGTATCACACTCCATGTGGGAGGCCAAGATGCCCATCGTGCACAGGGACCTC
 AAGAGCTCCAATATCCTCGTGAAGAACGACCTAACCTGCTGCCTGTGTGACTTTGGGCTT
 TCCCTGCGTCTGGACCCTACTCTGTCTGTGGATGACCTGGCTAACAGTGGCAGGTGGGA
 ACTGCAAGATACATGGCTCCAGAAGTCCAGAATCCAGGATGAATTTGGAGAATGTTGAG
 TCCTTCAAGCAGACCGATGTCTACTCCATGGCTCTGGTGTCTGGGAAATGACATCTCGC
 TGTAAATGCAAGTGGGAGAAGTAAAAGATTATGAGCCTCCATTTGGTTCCAAGGTGCGGGAG
 CACCCCTGTGCGAAAGCATGAAGGACAACGTGTTGAGAGATCGAGGGCGACCAGAAATT
 CCCAGTCTCTGGCTCAACCACCAGGGCATCCAGATGGTGTGTGAGACGTTGACTGAGTGC
 TGGGACCACGACCAGAGGCCCTCTCACAGCCAGTGTGTGGCAGAACGCTTCAAGTGC
 CTGGAGCATCTGGACAGGCTCTCGGGGAGGAGCTGCTCGGAGGAGAAGATTCCTGAAGAC
 GGCTCCCTAAACTACCAATAG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003242 unedited
 NNNTTGTTTCGAATTTTGAATACGACTCACTATAGGGGCGCCGCGATTTCGGCACCAGGG
 CCTCCAGGCCCTCCTGGCTGGCGAGCGGGCGCCACATCTGGCCCGCACATCTGCGCTG
 CCGGCCCGCGCGGGGTCCGGAGAGGGCGCGCGCGGAGGCGCAGCCAGGGGTCCGGGAA
 GGCGCCGTCCGCTGCGCTGGGGGCTCGTCTATGACGAGCAGCGGGTCTGCCATGGTCT
 GGGGGTCTCAGGGGCTGTGGCCGCTGCACATCGTCTGTGGACGCGTATCGCCAGCA
 CGATCCCACCGCACGTTTCCACAAGTTCAGAAAGTTCGGTTAATAACGACATGATAGTCACTGACAACAACG
 GTGCAGTCAAGTTTCCACAAGTGTGTAATTTTGTGATGTGAGATTTTCCACCTGTGACA
 ACCAGAAATCCTGCATGAGCAACTGCAGCATCACCTCCATCTGTGAGAAGCCACAGGAAG
 TCTGTGTGGTGTATGGAGAAAGAATGACGAGAACATAAACTAGAGACAGTTTGGCATG
 ACCCAAGCTCCCCTACCATGACTTTATTCTGGAAGATGCTGCTTCTCCAAAGTGCATTA
 TGAAGGAAAAAAGCCTGGTGGAGACTTTTTCATGTGTTCTGTAGCTCTGATGAGT
 GCAATGACAACATCATCTTCTCAGAAGAATATAACACCAGCAATCCTGACTTGTGTAGT
 TCATATTTCAAGTGACAGGCATCAGCCTCCTGCCACCACTGGGAGTTGCCATATCTGTCA
 TCATCATCTTCTACTGCTACCGGTTAACCGGCAGCAGAAGCTGAGTTCAACCTGGGAAA
 CCGGGCAGACGCGAAGCTCCATGGAGTTCAGCGAGCACTGTGCCATATNCCTGGGNAGAT
 GACCGCTCTGACATAGCTCCACGTGTG

Restriction Sites: NotI-NotI
ACCN: NM_003242

Insert Size:	4350 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_003242.4 , NP_003233.4
RefSeq Size:	4639 bp
RefSeq ORF:	1704 bp
Locus ID:	7048
UniProt ID:	P37173
Cytogenetics:	3p24.1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway
Gene Summary:	<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 (2) lacks an alternate in-frame exon in the coding region compared to variant 1. The resulting protein (isoform B) is shorter than isoform A.</p>