

Product datasheet for **SC325085**

TGF beta Receptor I (TGFBR1) (NM_001130916) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TGF beta Receptor I (TGFBR1) (NM_001130916) Human Untagged Clone
Tag: Tag Free
Symbol: TGFBR1
Synonyms: AAT5; ACVRLK4; ALK-5; ALK5; ESS1; LDS1; LDS1A; LDS2A; MSSE; SKR4; tbetaR-I; TBR-i; TBR1; TGFBR-1
Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_001130916, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGCGGCGGTGCTGCTCCGCGTCCCGGCTGCTCCTCCTGCTGGCGGCGGCG  
GCGGCGGCGGCGGCGGCGGCTGCTCCCGGGGCGACGGCGTTACAGTGTCTGCCACCTC  
TGTACAAAAGACAATTTTACTTGTGTGACAGATGGGCTGCTTTGTCTGTGCACAGAG  
ACCACAGACAAAGTTATACACAACAGCATGTGTATAGCTGAAATTGACTTAATTCCTCGA  
GATAGGCCGTTTGTATGTGCACCCTCTTCAAAAAGTGGGCTGTGACTACAACATATTGC  
TGCAATCAGGACCATTGCAATAAAAATAGAACTTCCAACACTGTTTACCATTGCTTGT  
CAGAGAACAATTGCGAGAACTATTGTGTTACAAGAAAGCATTGGCAAAGGTCGATTTGGA  
GAAGTTTGGAGAGGAAAGTGGCGGGGAGAAGAAGTTGCTGTTAAGATATTCTCCTCTAGA  
GAAGAACGTTTCGTGGTCCGTGAGGCAGAGATTTATCAAAGTAAAGTAAAGTAAAGTAAAG  
AACATCCTGGGATTTATAGCAGCAGACAATAAAGACAATGGTACTTGGACTCAGCTCTGG  
TTGGTGTGAGATTATCATGAGCATGGATCCCTTTTTGATTACTTAAACAGATACACAGTT  
ACTGTGGAAGGAATGATAAACTTGTCTGTCCACGGCGAGCGGTCTTGCCCATCTTCAC  
ATGGAGATTGTTGGTACCCAAGGAAAGCCAGCCATTGCTCATAGAGATTGAAATCAAAG  
AATATCTTGGTAAAGAAGAATGGAACCTTGTGTATTGCAGACTTAGGACTGGCAGTAAGA  
CATGATTCAGCCACAGATACCATTGATATTGCTCCAAACCACAGAGTGGGAACAAAAAGG  
TACATGGCCCCTGAAGTTCTCGATGATTCCATAAATATGAAACATTTTGAATCCTTCAA  
CGTGTGACATCTATGCAATGGGCTTAGTATTCTGGGAAATTGCTCGACGATGTTCCATT  
GGTGAATTCATGAAGATTACCAACTGCCTTATTATGATCTTGTACCTTCTGACCCATCA  
GTTGAAGAAATGAGAAAAGTTGTTTGTGAACAGAAAGTTAAGGCCAAATATCCCAAACAGA  
TGGCAGAGCTGTGAAGCCTTGAGAGTAATGGCTAAAATTATGAGAGAATGTTGGTATGCC  
AATGGAGCAGCTAGGCTTACAGCATTGCGGATTAAGAAAACATTATCGCAACTCAGTCAA  
CAGGAAGGCATCAAAATG
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Restriction Sites: Please inquire
ACCN: NM_001130916



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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).
OTI Annotation:	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.
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:	<u>NM_001130916.1</u> , <u>NP_001124388.1</u>
RefSeq Size:	6244 bp
RefSeq ORF:	1281 bp
Locus ID:	7046
UniProt ID:	<u>P36897</u>
Cytogenetics:	9q22.33
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 forms a heteromeric complex with type II TGF-beta receptors when bound to TGF-beta, transducing the TGF-beta signal from the cell surface to the cytoplasm. The encoded protein is a serine/threonine protein kinase. Mutations in this gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region, compared to variant 3. The encoded isoform (2) is shorter than isoform 3.</p>