

## Product datasheet for **SC327547**

### TBXAS1 (NM\_001166254) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TBXAS1 (NM_001166254) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBXAS1
Synonyms:	BDPLT14; CYP5; CYP5A1; GHOSAL; THAS; TS; TXAS; TXS
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001166254, the custom clone sequence may differ by one or more nucleotides

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ATGGAGTCAGAAAGCTGTATGGACCTCTGTGTGGTACTATCTTGGTCGTCGGATGTTT
ATTGTTATTTCTGAGCCAGACATGATCAAGCAGGTGTTGGTTGAGAACTCAGTAACTTT
ACCAACAGAATGGCGTCGGGTTTGGAGTTCAAGTCGGTAGCCGACAGCGTTCTGTTTTTA
CGTGACAAAAGATGGGAAGAGGTCAGAGGTGCCCTGATGTCTGCTTTCAGTCCTGAAAAG
CTGAACGAGATGGTTCCCTCATCAGCCAAGCCTGCGACCTTCTCCTGGCTCATTTAAAA
CGCTATGCGGAATCTGGGGACGCATTTGACATCCAGAGGTGCTACTGCAATTACACCACA
GATGTGGTTGCCAGCGTCGCCTTTGGCACCCCGTGGACTCCTGGCAGGCCCTGAGGAT
CCCTTTGTGAAACACTGCAAGCGTTTCTTGAATTCTGCATCCCCAGACCTATCCTGGTT
TACTCTTATCATTTCATCCATAATGGTCCCCTGGCCCGGATTTGCCAATAAAGAAC
CGAGACGAACTGAATGGCTTTTTTAACAAACTCATTAGGAATGTGATTGCCTTGGCGGAC
CAGCAAGCTGCCGAAGAGAGGGCGGAGAGACTTCCTCCAAATGGTCTGGATGCCCGACAT
TCTGCAAGTCCCATGGGCGTGCAAGACTTTGACATCGTCAGAGACGTTTTCTCCTCTACT
GGGTGCAAGCCGAACCTTCCCGGCAACACCAGCCAGCCCTATGGCCAGGCCTTTGACT
GTGGATGAGATTGTGGCCAGGCCTTTCATCTTCTCATCGCTGGCTATGAAATCATCACC
AACACACTTTCTTTGCCACCTACCTACTGGCCACCAACCCTGACTGCCAAGAGAAGCTT
CTGAGAGAGGTAGACGTTTTTAAAGGAGAAACACATGGCCCTGAGTTCTGCAGCCTCGAG
GAAGCCCTGCCCTATCTGGACATGGTGATTGCAGAGACGCTGAGGATGTACCCCGCAGCT
TTCAGATTCACACGGGAGGCAGCTCAGGACTGCGAGGTGCTGGGGCAGCGCATCCCCGCA
GGCGCTGTGCTAGAGATGGCCGTGGGTGCCCTGCACCATGACCCTGAGCACTGGCCAAGC
CCGGAGACCTTCAACCCTGAAAGGTTTACGGCTGAGGCCCGGCAGCAGCACCGGCCCTTC
ACGTACCTGCCCTTGGGGCCGGCCACGGAGCTGCCTCGGGGTGCGTCTAGGGCTGCTT
GAGGTCAAGTTGACACTGCTCCACGTGCTGCACAAGTTCCGGTTCGAAGCCTGCCCTGAG
ACCCAGGTACCGCTGCAGCTAGAATCCAAATCTGCCCTAGGTCCAAAAATGGTGTCTAT
ATCAAGATCGTATCCCGC

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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001166254
<b>OTI Disclaimer:</b>	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).
<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_001166254.1</a> , <a href="#">NP_001159726.1</a>
<b>RefSeq Size:</b>	2132 bp
<b>RefSeq ORF:</b>	1401 bp
<b>Locus ID:</b>	6916
<b>UniProt ID:</b>	<a href="#">P24557</a>
<b>Cytogenetics:</b>	7q34
<b>Protein Families:</b>	Druggable Genome, P450
<b>Protein Pathways:</b>	Arachidonic acid metabolism, Metabolic pathways

**Gene Summary:**

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. However, this protein is considered a member of the cytochrome P450 superfamily on the basis of sequence similarity rather than functional similarity. This endoplasmic reticulum membrane protein catalyzes the conversion of prostglandin H2 to thromboxane A2, a potent vasoconstrictor and inducer of platelet aggregation. The enzyme plays a role in several pathophysiological processes including hemostasis, cardiovascular disease, and stroke. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

Transcript Variant: This variant (5) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream translational start codon, compared to variant 1. The encoded isoform (4) is shorter at the N-terminus, compared to isoform 1.