

## Product datasheet for **SC109823**

### **TBXAS1 (NM\_001061) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TBXAS1 (NM_001061) 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)



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**Fully Sequenced ORF:** >OriGene ORF within SC109823 sequence for NM\_001061 edited (data generated by NextGen Sequencing)

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ATGATGGAAGCCTTGGGGTTTCTAAAATTGGAAGTGAATGGCCCCATGGTGACGGTGGCC
CTGTCACTGGCTCTCTTGGCCCTCTGAAATGGTACTCCACATCAGCATTCTCAAGACTG
GAGAAGTTAGGCCTCAGACATCCCAAGCCTTCTCCTTTCATTGGAACTTGACATTTTTC
CGCCAGGGTTTTTGGGAAAGCCAAATGGAGCTCAGAAAGCTGTATGGACCTCTGTGTGG
TACTATCTTGGTCGGATGTTTATTGTTATTTCTGAGCCAGACATGATCAAGCAGGTG
TTGGTTGAGAAGTTCAGTAACTTTACCAACAGAATGGCGTCGGGTTTGGAGTTCAAGTCG
GTAGCCGACAGCGTTCTGTTTTTACGTGACAAAAGATGGGAAGAGGTGAGAGGTGCCCTG
ATGTCTGCTTTCAGTCTGAAAAGCTGAACGAGATGGTCCCTCATCAGCCAAGCCTGC
GACCTTCTCTGGCTCATTTAAAACGCTATGCGGAATCTGGGACGCATTTGACATCCAG
AGGTGCTACTGCAATTACACCACAGATGTGTTGCCAGCGTCGCCTTTGGCACCCCGGTG
GACTCCTGGCAGGCCCTGAGGATCCCTTTGTGAAACACTGCAAGCGTTTCTTGAATTC
TGCATCCCGACACTATCCTGGTTTTACTTTATCATTTCATCCATAATGGTCCCCTG
GCCCGGATTTTGGCCAATAAGAACCAGACGAACTGAATGGCTTTTTTAACTCAATCATT
AGGAATGTGATTGCTTGCAGGACAGCAAGCTGCCGAAGAGAGCGGAGAGACTTCCTC
CAAATGGTCTGGATGCCCGACATTCTGCAAGTCCCATGGGCGTGCAAGACTTTGACATC
GTCAGAGACGTTTTCTCCTCTACTGGGTGCAAGCCGAACCTTCCCGCAACACCAGCCC
AGCCCTATGGCCAGGCCTTTGACTGTGGATGAGATTGTGGGCCAGGCCTTCATCTTCTC
ATCGCTGGCTATGAAATCATCACAACACACTTTCTTTTCCACCTACCTACTGGCCACC
AACCTGACTGCCAAGAGAAGCTTCTGAGAGAGGTAGACGTTTTTAAGGAGAAACACATG
GCCCTGAGTTCTGCAGCCTCGAGGAAGGCCTGCCCTATCTGGACATGGTATTGCAGAG
ACGCTGAGGATGTACCCGCCAGCTTTAGATTACACAGGAGGCAGCTCAGGACTGCGAG
GTGCTGGGGCAGCGCATCCCCGACAGCGCTGTGCTAGAGATGGCCGTGGGTGCCCTGCAC
CATGACCCTGAGCACTGGCCAAGCCGAGACCTTCAACCCTGAAAGGTTACGGCTGAG
GCCCGGCAGCAGCACCGCCCTTACGTACCTGCCCTTGGGGCCGGCCACGGAGCTGC
CTCGGGGTGCGTCTAGGGCTGCTTGAAGTCAAGTTGACTGCTCCACGTGCTGCACAAG
TTCCGGTTCGAAGCCTGCCCTGAGACCCAGGTACCCTGCAGCTAGAATCCAAATCTGCC
CTAGGTCCAAAAAATGGTGTCTATATCAAGATCGTATCCCGCTGA
    
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Clone variation with respect to NM\_001061.4

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_001061 unedited
TATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGCCTCGTGCCGAATTCGGCACGA
GGGTGATGTTTGGCTTGGTTGCCTGTTCCCTTTTCTACCTGCAGAGCACGGTCCCATAAG
GGCGGCAGATCAGCCTCCTGTCTCATCTGGAAGACCACCACTTGGGGTCTCAGAGGAA
TGATGGAAGCCTTGGGGTTTCTAAAATTGGAAGTGAATGGCCCCATGGTGACGGTGGCCC
TGTCACTGGCTCTCTTGGCCCTCTGAAATGGTACTCCACATCAGCATTCTCAAGACTGG
AGAAGTTAGGCCTCAGACATCCCAAGCCTTCTCCTTTCATTGGAACTTGACATTTTTCC
GCCAGGGTTTTTGGGAAAGCCAAATGGAGCTCAGAAAGCTGTATGGACCTCTGTGTGGGT
ACTATCTTGGTCGTGGATGTTTATTGTTATTTCTGAGCCAGACATGATCAAGCAGGTGT
TGGTTGAGAACTTCAGTAACTTTACCAACAGAATGGCGTCGGGTTTGGAGTTCAAGTCGG
TAGCCGACAGCCTTCTGTTTTTACGTGACAAAAGATGGGAAGAGGTGAGAGGTGCCCTGA
TGCTGCTTTTCAGTCTGAAAAGCTGAACGAGATGGTTCCTCATCAGCCAAGCCTGCG
ACCTTCTCTGGCTCATTTAAAACGCTATGCGGAATCTGGGACGCATTTGACTCCAGAG
GTGCTACTGCAATTACCCACAGATGTGGTTGCCAGCGTCGCCTTGGCACCCCGTGGACTC
CTGNCAGCCCTTGGATCCCTTTTGTGAACACTGCAGCGTTTCTTGAATCTGCATCCC
AGACTATNCNGNTTACTCTTATCATTCTCCATATGGNCCACTGCCCCNGATTTTGGC
AATAGACCGAGAGACT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001061 unedited GCAACTTTCCAGGGCCAGGAAGNAGCACTGGGGNAGGGTCACAGGGATGCCACCCGGGAT CTGTTCAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGNTTTTTTTTTTTTTT TTTTTTTTTCCAAGGGCAACAAACGTTTATTAAGCATTTAGGAAATGTTATGTAAGAAC CTTTTATCCTTGCATGCCAGGCACTCTTCAATCACTTCAGGGACATTTTCCAAAATTC TGAACATCCACACTTAGGGTTTTCTTTGAATTTGGGGGGCCCTCCCCCACCCGGCAGC CTTTTGTGTGACGCGGATACGATCTTGATATAAACACCATTTTTTGGACCTAGGGCAGAT TTGGATTCTAGCTGCAGCGGTACCTGGGTCTCAGGGCAGGCTTGAACCGGAACTTGTGG NNNACGTGGAGCAGTGTCAACTTGACCTCAAGCAGCCCTAAACGCACCCCGAGGCAGCTC CGTGGGCCGGCCCGAAGGGCAGGTACGTGAAGGGCCGGTGTCTGCTGCCGGGCNCTCACC GTGAACCTTTTCAGGGTTGAAGGTCTCCGGGCTTGCCAGTGTCTCAGGGTCATGGGCAGG GCACCCACGGCCATCTCTAGCACANCGCCTGCGGGGATGCGCTTGCCAGCACCTCGCAG TCCTGAGTGCCTCCCGTGGGAATTGAAAGCTGGCGGGACATCCTCAGCGTTTCTGCAAT CACCATGTCCACAAAGNNNACCCTCCTCGAGGCTGCAAACCTCAGGGCCATGGGTTTCT CTTAAAAACGTCTACCTCTTTCAAACCTTTTCTTGCCAATAAGGGTTGGGTGGCAGTAG GTAGTGGCAAAGAAAGAGGTGTGGGTGAAGATCTATTACCACGATAGGAAAATGAAGGC TTGCCACATTTCTCCAGGCAAGGGCGGCATAGGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001061
<b>Insert Size:</b>	1960 bp
<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>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_001061.2</a> , <a href="#">NP_001052.1</a>
<b>RefSeq Size:</b>	1946 bp
<b>RefSeq ORF:</b>	1605 bp
<b>Locus ID:</b>	6916
<b>UniProt ID:</b>	<a href="#">P24557</a>
<b>Cytogenetics:</b>	7q34
<b>Domains:</b>	p450
<b>Protein Families:</b>	Druggable Genome, P450

**Protein Pathways:** 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 (1, also known as TXS-I) encodes isoform 1, which is also known as isoform TXS-I. Both variants 1 and 3 encode the same isoform. CCDS Note: The coding region has been updated to shorten the N-terminus to one that is better supported by available conservation data and peptide data. This CCDS represents use of a downstream start codon, shortening the protein by a single amino acid.