

Product datasheet for **SC327106**

TBXAS1 (NM_001166253) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBXAS1 (NM_001166253) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBXAS1
Synonyms:	BDPLT14; CYP5; CYP5A1; GHOSAL; THAS; TS; TXAS; TXS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC327106 representing NM_001166253.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGATGGAAGCCTTGGGGTTTCTAAAATTGGAAGTGAATGGCCCCATGGTGACGGTGGCCCTGTCAAGT
GCTCTCTTGGCCCTCCTGAAATGGTACTCCACATCAGCATTCTCAAGACTGGAGAAGTTAGGCCTCAGA
CATCCCAAGCCTTCTCCTTTTCATTGAAAACCTTGACATTTTCCGCCAGGGTTTTTGGGAAAAGCCAAATG
GAGCTCAGAAAAGCTGTATGGACCTCTGTGTGGTACTATCTTGGTCGTCGGATGTTTATTGTTATTTCT
GAGCCAGACATGATCAAGCAGGTGTTGGTTGAGAACTTCAAGTAACTTTACCAACAGAATGGCGTCGGGT
TTGGAGTTCAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
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AAAGGTCACATGGGTGGCCAGCAGGCTCCACAAAGAATCCACCCACCCGTTTGTGCAAGCCGAGTGGT
ATCTATGTGAATCTCCATTATGCCACTTACCTTTCTGTATGGTCCCCTCATCAGCCAAGCCTGCGAC
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GATCCCTTTGTGAAACACTGCAAGCGTTTCTTCAATTCTGCATCCCCAGACCTATCCTGGTTTTACTC
TTATCATTTCCATCCATAATGGTCCCCTGCCCCGATTTTGCCCAATAAGAACCAGACGAACTGAAT
GGCTTTTTTAACAACTCATTAGGAATGTGATTGCCTTGGCGGACCAGCAAGCTGCCGAAGAGAGGCGG
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CTGAGAGAGGTAGACGTTTTTAAGGAGAAACACATGGCCCTGAGTTCTGCAGCCTCGAGGAAGGCCTG
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GCAGCTCAGGACTGCGAGGTGCTGGGGCAGCGCATCCCCGAGGCGCTGTGCTAGAGATGGCCGTGGGT
GCCCTGCACCATGACCCTGAGCACTGGCCAAGCCCGGAGACCTTCAACCCTGAAAGGTTACAGGCTGAG
GCCCGGCAGCAGCACCAGCCCTTACGTACCTGCCCTTCGGGGCCGGCCACGGAGCTGCCTCGGGGTG
CGTCTAGGGCTGCTTGGGTCAAGTTGACTGCTCCACGTGCTGCACAAGTCCGGTTCCAAGCCTGC
CCTGAGACCCAGGTACCCTGCAGCTAGAATCCAATCTGCCCTAGGTCCAAAAAATGGTGTCTATATC
AAGATCGTATCCCGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001166253
- Insert Size:** 1743 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).
- 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:

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_001166253.1](#)

RefSeq Size: 2220 bp

RefSeq ORF: 1743 bp

Locus ID: 6916

UniProt ID: [P24557](#)

Cytogenetics: 7q34

Protein Families: Druggable Genome, P450

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

MW: 65.8 kDa

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 (4) includes an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (3) that is longer than isoform 1. 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.