

Product datasheet for **SC322621**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322621
 CTGAGAAAGAGCACATTGTGGGGGCCACTCCATGTGATGTTTGCTTGGTTGCCTGTTCC
 CTTTTCTACCTGCAGAGCACGGTCCCATAAGGGCGGCGAGATCAGCCTCCTGTCTCATC
 TGGAAAGACCACACTCTGGGGTCTCAGAGGAATGATGGAAGCCTTGGGGTTTCTAAAATT
 GGAAGTGAATGGCCCATGGTGACGGTGGCCCTGTCAGTGGCTCTTTGGCCCTCCTGAA
 ATGGTACTCCACATCAGCATTCTCAAGACTGGAGAAGTTAGGCCCTCAGACATCCCAAGCC
 TTCTCCTTTTCATTGAAACTTGACATTTTTCCGCCAGGGTTTTTGGGAAAGCCAAATGGA
 GCTCAGAAAGCTGTATGGACCTCTGTGTGGTACTATCTTGGTCGTCGGATGTTTATTGT
 TATTTCTGAGCCAGACATGATCAAGCAGGTGTTGGTTGAGAACTTCAGTAACTTTACCAA
 CAGAATGGCGTCGGGTTTGGAGTTCAAGTCGGTAGCCGACAGCGTTCTGTTTTTACGTGA
 CAAAAGATGGGAAGAGGTCAGAGGTGCCCTGATGTCTGCTTTCAGTCTGAAAAGCTGAA
 CGAGATGGTTCCTCATCAGCCAAGCCTGCGACCTTCTCCTGGCTCATTTAAAACGCTA
 TGCGGAATCTGGGGACGCATTTGACATCCAGAGGTGCTACTGCAATTACACCACAGATGT
 GGTGCCAGCGTCGCTTTGGCACCCCGTGGACTCCTGGCAGGCCCTGAGGATCCCTT
 TGTGAAACACTGCAAGCGTTTCTCGAATTCTGCATCCCAGACCTATCCTGGTTTTACT
 CTATCATTTCCATCCATAATGGTCCCCTGCCCCGATTTTGCCTAATAAGAACCAGAGA
 CGAACTGAATGGCTTTTTTAACAAACTCATTAGGAATGTGATTGCCTTGGGGACACGCA
 AGCTGCCGAAGAGAGGGCGGAGAGACTTCCTCCAAATGGTCTGGATGCCCGACATTCTGC
 AAGTCCCATGGGCGTGCAAGACTTTGACATCGTCAGAGACGTTTTCTCCTCTACTGGGTG
 CAAGCCGAACCTTCCCGGCAACACCAGCCAGCCCTATGGCCAGGCCTTGGACTGTGGA
 TGAGATTGTGGCCAGGCCTTCTCCTCATCGCTGGCTATGAAATCATCACCAACAC
 ACTTTCTTTTGCACCTACCTACTGGCCACCAACCCTGACTGCCAAGAGAAGCTTCTGAG
 AGAGTAGACGTTTTTAAGGAGAAACACATGGCCCTGAGTTCTGCAGCCTCGAGGAAGG
 CCTGCCCTATCTGGACATGGTGATTGCAGAGACGCTGAGGATGTACCCGCCAGCTTTCAG
 ATTCACACGGGAGGCAGCTCAGGACTGCGAGGTGCTGGGGCAGGCATCCCCGCAGGCGC
 TGTGCTAGAGATGGCCGTGGGTGCCCTGCACCATGACCCTGAGCACTGGCCAAGCCCGGA
 GACCTTCAACCCTGAAAGGTTACGGCTGAGGCCCGGCAGCAGCACCCGCCCTTACGTA
 CCTGCCCTTGGGGCCGGCCACGGAGCTGCCTCGGGGTGCGTCTAGGGCTGCTTGAAGT
 CAAGTTGACACTGCTCCACGTGCTGCACAAGTTCGGTTCGAAGCCTGCCCTGAGACCCA
 GGTACCGCTGCAGCTAGAATCCAAATCTGCCCTAGGTCCAAAAATGGTGTCTATATCAA
 GATCGTATCCCGCTGACACAGAAGGCTGCCGGTGGGGGAGGGCACCCCAAATTCAAA
 GAAAACCTAAGTGTGGATGTTCAAGATTTGGAAAAATGCACTGAAGTGATTGAAAGA
 GTGCCTGGCATGCAAGGATAAGAGGTTCTTTACATAACATTTCTAAATGCTTAATAAAC
 GTTTGTTGCACTTGGTTTTGACATTGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001061

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_001061.2](#), [NP_001052.1](#)

RefSeq Size: 1946 bp

RefSeq ORF: 1605 bp

Locus ID: 6916

UniProt ID: [P24557](#)

Cytogenetics: 7q34

Domains: p450

Protein Families: 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.