

Product datasheet for **SC310363**

TBXAS1 (NM_030984) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBXAS1 (NM_030984) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBXAS1
Synonyms:	BDPLT14; CYP5; CYP5A1; GHOSAL; THAS; TS; TXAS; TXS
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_030984, the custom clone sequence may differ by one or more nucleotides ATGATGGAAGCCTTGGGGTTTCTAAAATTGGAAGTGAATGGCCCCATGGTGACGGTGGCC CTGTCACTGGCTCTCTTGGCCCTCCTGAAATGGTACTCCACATCAGCATTCTCAAGACTG GAGAAGTTAGGCCTCAGACATCCCAAGCCTTCTCCTTTTCATTGGAACTTGACATTTTTTC CGCCAGGGTTTTGGGAAAGCCAAATGGAGCTCAGAAAGCTGTATGGACCTCTGTGTGGG TACTATCTTGGTCGTCGGATGTTTATTGTTATTTCTGAGCCAGACATGATCAAGCAGGTG TTGGTTGAGAACTTCAGTAACTTACCAACAGAATGGCGTCGGGTTTGGAGTTCAAGTCG GTAGCCGACAGCGTTCTGTTTTACGTGACAAAAGATGGGAAGAGGTCAGAGGTGCCCTG ATGTCTGCTTTCAGTCTGAAAAGCTGAACGAGATGGTTCCCTCATCAGCCAAGCCTGC GACCTTCTCTGGCTCATTTAAAACGCTATGCGGAATCTGGGGACGCATTTGACATCCAG AGGTGCTACTGCAATTACACCACAGATGTGGTTGCCAGCGTCGCCTTTGGCACCCCGGTG GACTCCTGGCAGGCCCTGAGGATCCCTTTGTGAAACACTGCAAGCGTTTCTTCGAATTC TGCATCCCCAGACCTATCCTGGTTTTACTCTTATCATTTCATCCATAATGGTCCCCTG GCCCCGATTTTGCCTAATAAGAACCGAGACGAAGTGAATGGCTTTTTTAACAACTCATT AGGAATGTGATTGCCTTGCAGGACCAAGCTGCCGAAGAGAGGCGGAGAGACTTCCTC CAAATGGTCTGGATGCCCGACATCTGCAAGTCCCATGGGCGTGCAAGACTTTGACATC GTCAGAGACGTTTTCTCCTCTACTGGGTGCAAGCCGAACCTTCCCGCAACACCAGCCC AGCCCTATGGCCAGGCCTTTGACTGTGGATGAGATTGTGGCCAGGCCTTCATCTTCCTC ATCGCTGGCTATGAAATCATACCAACACACTTTCTTTTGGCACCTACCTACTGGCCACC AACCTGACTGCCAAGAGAAGCTTCTGAGAGAGGTAGACGTTTTTAAGGAGAAACACATG GCCCTGAGTTCTGCAGCCTCGAGGAAGGCCTGCCCTATCTGGACATGGTATTGCAGAG ACGCTGAGGATGTACCCGCCAGCTTTCAGATTCACACGGGAGGCAGCTCAGGACTGCGAG GTGCTGGGGCAGGCATCCCCGAGCGCTGTGCTAGAGATGGCCGTGGGTGCCCTGCAC CATGACCCTGAGCACTGGCCAAGCCGGAGACCTCAACCCTGAAAGGTACCGCTGCAGC TAG
Restriction Sites:	Please inquire
ACCN:	NM_030984



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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_030984.1</u> , <u>NP_112246.1</u>
RefSeq Size:	1783 bp
RefSeq ORF:	1383 bp
Locus ID:	6916
UniProt ID:	<u>P24557</u>
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 (2, also known as TXS-II) lacks an alternate exon in the 3' coding region that encodes the heme binding site, compared to transcript variant 1. The encoded isoform (2, also known as isoform TXS-II) lacks thromboxane A synthase activity, has a distinct C-terminus, and is shorter than isoform 1. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. **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.