

## Product datasheet for **RG228471**

### **TBXAS1 (NM\_001166253) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TBXAS1 (NM_001166253) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBXAS1
Synonyms:	BDPLT14; CYP5; CYP5A1; GHOSAL; THAS; TS; TXAS; TXS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228471 representing NM\_001166253  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGGAAGCCTTGGGTTTCTAAAATTGGAAGTGAATGGCCCCATGGTGACGGTGGCCCTGTCTAGTGG  
 CTCTCTTGGCCCTCTGAAATGGTACTCCACATCAGCATTCTCAAGACTGGAGAAGTTAGGCCTCAGACA  
 TCCCAAGCCTTCTCCTTTCATTGAAAATTGACATTTTTCCGCCAGGGTTTTGGAAAAGCCAAATGGAG  
 CTCAGAAAAGCTGTATGGACCTCTGTGTGGTACTATCTTGGTCGTGGATGTTTATTGTTATTTCTGAGC  
 CAGACATGATCAAGCAGGTGTTGGTTGAGAAGTTCAGTAACTTTACCAACAGAATGGCGTCGGTGGTGG  
 GTTCAAGTCGGTAGCCGACAGCCTTCTGTTTTACGTGACAAAAGATGGGAAGAGGTGAGAGGTGCCCTG  
 ATGTCTGCTTTCAGTCTGAAAAGCTGAACGAGCTTGGCCTTTAATCATGCAAGAGAGAATAAAAGGTC  
 ACATGGGTGGCCAGCAGGCTCCACAAAGAATTCCACCCACCCGTTTGTGCAAGCCGAGTGGTATCTATGT  
 GAATCTCCATTATGCCACTCTACCTTTCTGTATGGTCCCTCATCAGCCAAGCCTGCGACCTTCTCCTG  
 GCTCATTTAAAACGCTATGCGGAATCTGGGACGCATTTGACATCCAGAGGTGCTACTGCAATTACACCA  
 CAGATGTGGTTGCCAGCGTCGCCTTTGGCACCCCGGTGGACTCCTGGCAGGCCCTGAGGATCCCTTTGT  
 GAAACTGCAAGCGTTTCTTGAATTCTGCATCCCCAGACCTATCCTGGTTTTACTCTTATCATTTC  
 TCCATAATGGTCCCAGTGGCCCGGATTTTGCCCAATAAGAACCGAGACGAACTGAATGGCTTTTTAAACA  
 AACTCATTAGGAATGTGATTGCCTTGGGGGACCAGCAAGTGGCAGAGAGGCGGAGAGACTTCTCCCA  
 AATGGTCTGGATGCCCGACATTCTGCAAGTCCATGGCGTGAAGACTTTGACATCGTCAGAGACGTT  
 TTCTCTACTGGTGGTGAAGCCGAACCTTCCCGCAACACCCAGCCATGAGCCAGGCTTTGA  
 CTGTGATGAGATTGTGGCCAGGCTTTCATCTTCTCATCGCTGGCTATGAAATCATCACCAACACACT  
 TTCTTTTGCACCTACCTACTGGCCACCAACCCTGACTGCCAAGAGAAGCTTCTGAGAGAGGTAGACGTT  
 TTTAAGGAGAAACACATGGCCCTGAGTCTGACGCTCGAGGAAGGCTGCCCTATCTGGACATGGTGA  
 TTGCAGAGACGCTGAGGATGTACCCGAGCTTTCAGATTACACGGGAGGCAGCTCAGGACTGCGAGGT  
 GCTGGGGCAGCGCATCCCCGAGGCGCTGTGCTAGAGATGGCCGTGGGTGCCCTGCACCATGACCCTGAG  
 CACTGGCAAGCCCGGAGACCTTCAACCCTGAAAGGTTACGGCTGAGGCCCGGCAGCAGCACCGGCCCT  
 TCACGTACCTGCCCTTGGGGCCGGCCACGGAGCTGCCTCGGGTGCCTAGGGCTGCTTGGAGTCAA  
 GTTGACACTGCTCCACGTGCTGCACAAGTTCGGTTCGAAGCCTGCCCTGAGACCCAGGTACCGCTGCAG  
 CTAGAATCCAAATCTGCCCTAGGTCCAAAAATGGTGTCTATATCAAGATCGTATCCCGC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG228471 representing NM\_001166253  
 Red=Cloning site Green=Tags(s)

MMEALGFLKLEVNPMVTVALSVALLALLKWSTRSAFSRLEKLRHPKPSPIGNLTFFRQGFWESQME  
 LRKLYGPLCGYYLGRMFIVISEPDMIKQVLVENFSNFTNRMASGLEFKSVADSVLFLRDKRWEEVRGAL  
 MSAFSPEKLNELGLLIMQERIKGHMGGQAPQRIPPTRLSKPSGIYVNLHYATLPFCMVPLISQACDLLL  
 AHLKRYAESGDAFDIQRCCYNYTTDVVASVAFGTPVDSWQAPEDPFVKHCKRFFEFICIPRILVLLL SFP  
 SIMVPLARILPNKNRDELNGFFNKLIRNVIALRDQQAEEERRRDFLQMVLDARHSASPMGVQDFDIVRDV  
 FSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIAGYEIITNLSFATYLLATNPDCQEKLLREVDV  
 FKEKHMAPEFCSLEGLPYLDMVIAETLRMYPPAFRFTREAAQDCEVLGQRIPAGAVLEMAVGALHHDPE  
 HWPSPETFNPERFTAEARQHRPFYLPFGAGPRSCLVRLGLLEVKLLHVLHKFRFQACPETQVPLQ  
 LESKSALGPKNGVYIKIVSR

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001166253

**ORF Size:** 1740 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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](#), [NP\\_001159725.1](#)

**RefSeq Size:** 2220 bp

**RefSeq ORF:** 1740 bp

**Locus ID:** 6916

**UniProt ID:** [P24557](#)

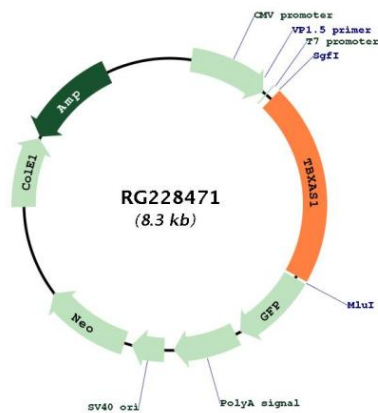
**Cytogenetics:** 7q34

**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]

### Product images:



Circular map for RG228471