

## Product datasheet for **RG228912**

### **TBXAS1 (NM\_001166254) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TBXAS1 (NM_001166254) 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:**

>RG228912 representing NM\_001166254  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCTCAGAAAGCTGTATGGACCTCTGTGTGGTACTATCTTGGTCGTCGGATGTTTATTGTTATTT  
 CTGAGCCAGACATGATCAAGCAGGTGTTGGTTGAGAACTTCAGTAACTTTACCAACAGAATGGCGTCGGG  
 TTTGGAGTTCAAGTCGGTAGCCGACAGCGTTCTGTTTTTACGTGACAAAAGATGGGAAGAGGTGAGAGGT  
 GCCCTGATGTCTGCTTTTCACTGCTGAAAAGCTGAACGAGATGGTCCCCTCATCAGCCAAGCCTGCGACC  
 TTCTCCTGGCTCATTTAAAACGCTATGCGGAATCTGGGGACGATTTGACATCCAGAGGTGCTACTGCAA  
 TTACACCACAGATGTGGTTGCCAGCGTCGCCTTTGGCACCCCGGTGGACTCCTGGCAGGCCCTGAGGAT  
 CCCTTTGTGAAACACTGCAAGCGTTTCTCGAATTCTGCATCCCAGACCTATCCTGGTTTTACTCTTAT  
 CATTTCCATCCATAATGGTCCCCTGCCCCGATTTTGGCCAATAAGAACCAGAGACGAAGTGAATGGCTT  
 TTTAACAACACTATTAGGAATGTGATTGCCTTGGGGACAGCAAGCTGCCGAAGAGAGCGGAGAGAGAC  
 TTCTCCTCAAAATGGTCTGGATGCCCGACATTCTGCAAGTCCCATGGGCGTCAAGACTTTGACATCGTCA  
 GAGACGTTTTCTCCTCTACTGGGTGCAAGCCGAACCCCTCCCAGCAACACCAGCCAGCCATGAGCCAG  
 GCCTTTGACTGTGGATGAGATTGTGGGCCAGGCCCTTCACTTCTCCTCATCGCTGGCTATGAAATCATCACC  
 AACACACTTTCTTTTCCACCTACCTACTGGCCACCAACCCTGACTGCCAAGAGAAGCTTCTGAGAGAGG  
 TAGACGTTTTTAAAGGAGAAACACATGGCCCCTGAGTCTGCGACCTCGAGGAAGGCTGCCCTATCTGGA  
 CATGGTGATTGCAGAGACGCTGAGGATGTACCCGCCAGCTTTAGATTACACGGGAGGCAGCTCAGGAC  
 TGCGAGGTGCTGGGGCAGCGCATCCCGCAGGCGCTGTGCTAGAGATGGCCGTGGGTGCCCTGCACCATG  
 ACCCTGAGCACTGGCCAAGCCCGGAGACCTTCAACCCTGAAAGGTTACGGGCTGAGGCCCGGCAGCAGCA  
 CCGGCCCTTACAGTACCTGCCCTTCGGGGCCGGCCACGGAGCTGCCTCGGGGTGCGTCTAGGGCTGCTT  
 GAGGTCAAGTTGACACTGCTCCACGTGCTGCACAAGTTCCGGTCCAAGCCTGCCCTGAGACCCAGGTAC  
 CGCTGCAGCTAGAATCCAATCTGCCCTAGGTCCAAAAAATGGTGTCTATATCAAGATCGTATCCCGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG228912 representing NM\_001166254  
 Red=Cloning site Green=Tags(s)

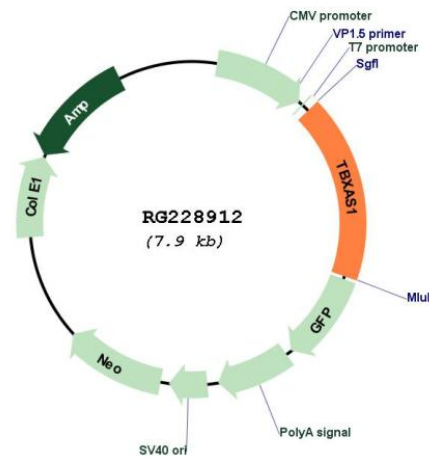
MELRKL YGPLCGYYL GRRMFIV ISEPDMIKQVL VFNFSNFTNRMASGLEFKSVADSVLFLRDKRWEEVRG  
 ALMSAFSPEKLNEMVPLISQACDLLLAHLKRYAESGDAFDIQRVCYNYTTDVVASVAFGTPVDSWQAPED  
 PFVKHCKRFFFCIPRPILVLLLSFPSIMVPLARILPNKNRDELNGFFNKLIRNVIALRDQQAEEERRRD  
 FLQMVLDARHSASPMGVQDFDIVRDVFSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIAGYEIIT  
 NTL SFATYLLATNPDCQEKLREVDVFKEKHEMAPEFCSLEEGLPYLDMVIAETLRMYPPAFRFTREAAQD  
 CEVLGQRIPAGAVLEMAVGALHHDPEHWSPETFNPERFTAERQHRPFTYLPFGAGPRSLGVRLGLL  
 EVKLTLHLVHLHKFRFQACPETQVPLQLESKLSALGPKNGVYIKIVSR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001166254

**ORF Size:** 1401 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.

<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_001166254.3</a>
<b>RefSeq Size:</b>	2132 bp
<b>RefSeq ORF:</b>	1401 bp
<b>Locus ID:</b>	6916
<b>UniProt ID:</b>	<a href="#">P24557</a>
<b>Cytogenetics:</b>	7q34
<b>Protein Families:</b>	Druggable Genome, P450
<b>Protein Pathways:</b>	Arachidonic acid metabolism, Metabolic pathways
<b>Gene Summary:</b>	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]