

## Product datasheet for **RG208028**

### **TBXAS1 (NM\_001061) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TBXAS1 (NM_001061) 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:**

>RG208028 representing NM\_001061  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGGAAGCCTTGGGTTTCTAAAATTGGAAGTGAATGGCCCATGGTGACGGTGGCCCTGTCTAGTGG  
 CTCTTTGGCCCTCTGAAATGGTACTCCACATCAGCATTCTCAAGACTGGAGAAGTTAGGCCTCAGACA  
 TCCCAAGCCTTCTCCTTTTCATTGAAAATTGACATTTTTCCGCCAGGGTTTTGGAAAGCCAAATGGAG  
 CTCAGAAAGCTGTATGGACCTCTGTGTGGTACTATCTTGGTCGTGGATGTTTATTGTTATTTCTGAGC  
 CAGACATGATCAAGCAGGTGTTGGTTGAGAATTCTAGTAACTTTACCAACAGAATGGCGTCGGGTTTGG  
 GTTCAAGTCGGTAGCCGACAGCCTTCTGTTTTACGTGACAAAAGATGGGAAGAGGTGAGAGGTGCCCTG  
 ATGTCTGCTTTCAGTCTGAAAAGCTGAACGAGATGGTCCCTCATCAGCCAAGCTGCGACCTTCTCC  
 TGGCTCATTTAAAACGCTATGCGGAATCTGGGACGCATTTGACATCCAGAGGTGCTACTGCAATTACAC  
 CACAGATGTGGTTGCCAGCGTCGCTTTGGCACCCGGTGGACTCTGGCAGGCCCTGAGGATCCCTTT  
 GTGAAACTGCAAGCGTTTCTTGAATTCGATCCCCAGACCTATCCTGGTTTTACTCTTATCATTTTC  
 CATCCATAATGGTCCCCTGCGCCGGATTTTGCCCAATAAGAACCAGACGAACTGAATGGCTTTTTTAA  
 CAAACTCATTAGGAATGTGATTGCCTTGCGGGACCAGCAAGCTGCCGAAGAGAGGCGGAGAGACTTCCTC  
 CAAATGGTCTGGATGCCCGACATTCGCAAGTCCCATGGGCGTGAAGACTTTGACATCGTCAGAGACG  
 TTTTCTCTCTACTGGGTGCAAGCCGAACCTTCCCGCAACACCAGCCAGCCCTATGGCCAGGCTTT  
 GACTGTGGATGAGATTGTGGCCAGGCTTCATCTTCTCATCGTGGCTATGAAATCATACCAACACA  
 CTTTCTTTGCCACCTACCTACTGGCCACCAACCCTGACTGCCAAGAGAAGCTTCTGAGAGAGGTAGACG  
 TTTTTAAGGAGAAACACATGGCCCTGAGTTCTGCAGCCTCGAGGAAGGCTGCCCTATCTGGACATGGT  
 GATTGCAGAGACGCTGAGGATGTACCCGCCAGCTTTCAGATTACACGGGAGGCAGCTCAGGACTGCGAG  
 GTGCTGGGGCAGCGCATCCCCGACGGCGCTGTGCTAGAGATGGCCGTGGGTGCCCTGCACCATGACCCTG  
 AGCACTGGCCAAGCCCGGAGACCTTCAACCCTGAAAGGTTACGGCTGAGGCCCGGCAGCAGCACCAGCC  
 CTTACGTACCTGCCCTTCGGGGCCGGCCACGGAGCTGCCTCGGGTGCCTAGGGCTGCTTGGAGTC  
 AAGTTGACACTGCTCCACGTGCTGCACAAGTCCGGTTCAAGCCTGCCCTGAGACCCAGGTACCCTGCG  
 AGCTAGAATCAAATCTGCCCTAGTCCAAAAATGGTGTCTATATCAAGATCGTATCCCGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208028 representing NM\_001061  
 Red=Cloning site Green=Tags(s)

MMEALGFLKLEVNGPMVTVALSVALLALLKWYSTSAFSRLEKGLRHPKPSPIGNLTFFRQGFWESQME  
 LRKLYGPLCGYYLGRMFIVISEPDMIKQVLVENFSNFTNRMASGLEFKSVADSVLFLRDKRWEEVRGAL  
 MSAFSPEKLNEMVPLISQACDLLLAHLKRYAESGDAFDIQRCCNYTTDVAASVAFGTPVDSWQAPEDPF  
 VKHCKRFFEFICIPRPILVLLLSFSPIMVPLARILPNKNRDELNGFFNKLIRNVIALRDQQAEEERRDFL  
 QMVLDRHSASPMGVQDFDIVRDVFSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIAGYEIITNT  
 LSFATYLLATNPDCQEKLLREVDVFKKEMAPEFCSEELPYLDMVIAETLRMYPPAFRFTREAAQDCE  
 VLGQRIPAGAVLEMAVGALHHDPEHWSPETFNPERFTAEARQQHRPFTYLPFGAGPRSLGVRLGLEEV  
 KLTLHLVHLHKFRFQACPETQVPLQLESKSALGPKNGVYIKIVSR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001061

**ORF Size:** 1602 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\\_001061.4](#)

**RefSeq Size:** 1946 bp

**RefSeq ORF:** 1602 bp

**Locus ID:** 6916

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

**Cytogenetics:** 7q34

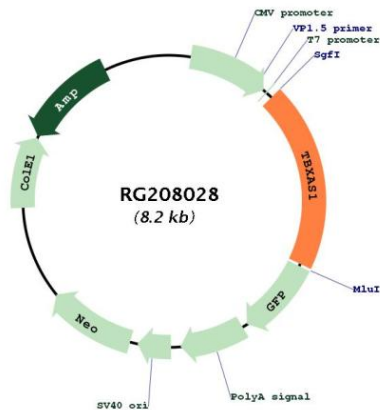
**Domains:** p450

**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]

**Product images:**



Circular map for RG208028