

## Product datasheet for **MC217547**

### **Tbxas1 (NM\_011539) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tbxas1 (NM_011539) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tbxas1
Synonyms:	CYP5; CYP5A1; THAS; TS; TXAS; TXS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217547 representing NM\_011539  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAAGTGTGGGGCTTCTCAAGTTTGAAGTCAGTGGTACCATAGTGACTGTGACTCTGCTCGTGGCTC  
TCTTGGCCCTCCTGAAATGGTACTCCATGTCAGCTTTCTCAAGACTGGAGAAGTTGGGCATCAGGCACCC  
CAAGCCTTCTCCTTTTGTGGAACTTGATGTTTTCCGCCAGGGTTTTTGGGAGAGCCAATTGGAACCT  
CGAGAGCGATACGGCCCTCTGTGTGGTACTATCTTGGCCGTGGATGCACGTTGTCAATTCAGAGCCAG  
ACATGATCAAGCAGGTGTTGGTTGAGAAGTTCAGTAACTTTTCCAACAGAATGGCCTCAGGTCTGGAACC  
CAAGATGGTAGCAGACAGTGTCTGTTGTACGTGACAGAAGATGGGAGGAAGTCAGGGGTGCCCTGATG  
TCTTCATTCACTCCTGAAAAGTTGGATGAGATGACACCTCTCATCAGCCAAGCCTGTGAAGTTCTCGTGG  
CTCACTTAAAACGCTATGCAGCATCCAGGGACGCATTCAACATCCAGAGGTGTTACTGCTGTTACACCAT  
AGATGTGGTGGCCAGTGTGGCCTTTGGCACCCAGGTGGACTCCCAGAATTCCTCAGAAGATCCCTTTGTG  
CAACACTGCCGGCGTGCTCCACCTTCTGTATCCCAGGCCTCTCCTGGTATTAATCTTATCATTCCAT  
CCATAATGGTCCCATTGGCCCGGATTCTGCCCAATAAGAACCAGATGAAGTGAATGGCTTTTTTAAACAC  
ACTCATTAGGAATGTGATTGCCTTACGGGACCAGCAAGCAGCAGAAGAGAGGGCGGAGAGACTTCCTGCAG  
ATGGTGTGGATGCCAGCACTCCATGAAGTCTGTGGCGTGGAAAGGCTTTGACATGGTCCCAGAATCCC  
TGTCTCTTCTGAGTGCACAAAGGAACCCCAAGGTGCCATCCTACCTCCACATCTAAGCCTTTTAC  
TGTGGATGAAATTGTGGGCCAGGCCTTCTCTTCTCATTGCGGGCCATGAGGTCATCACAACACGCTG  
TCCTTCATCACATACCTGCTGGCCACCCACCCTGACTGCCAGGAGAGGCTTCTGAAAGAGGTGGACCTCT  
TCATGGGAAGCACCCAGCCCCTGAGTACCACAGCCTGCAGGAAGTCTGCCGTATCTGGACATGGTGAT  
TTCAGAGACCCTGAGGATGTACCCACCAGCTTTCAGGTTACACGGGAGGCAGCACAGGACTGTGAGGTG  
CTGGGACAACGTATCCCTGCAGGTACAGTGTGGAGATAGCTGTGGGTGCCCTACACCATGACCCAGAGC  
ACTGGCCGAATCCTGAGACCTTTGACCCTGAAAGGTTACAGCAGAGGCCCGGCTTCAGCGGAGGCCGTT  
CACATACCTGCCCTTTGGAGCTGGCCCCAGGAGCTGCCTCGGAGTGCGGCTGGGCCTGCTGGTGGTCAAG  
CTGACAATACTCCAGGTCTACACAAGTCCGCTTTGAAGCCAGCCCTGAGACTCAGGTTCCACTTCAGC  
TAGAATCCAAATCTGCCCTAGGCCCAAAAATGGAGTCTACATCAAGATTGTGTCCAGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_011539

**Insert Size:** 1602 bp

**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).

**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\\_011539.3](#), [NP\\_035669.3](#)

**RefSeq Size:** 1992 bp

**RefSeq ORF:** 1602 bp

**Locus ID:** 21391

**UniProt ID:** [P36423](#)

**Cytogenetics:** 6 17.85 cM

**Gene Summary:** Catalyzes the conversion of prostaglandin H2 (PGH2) to thromboxane A2 (TXA2), a potent inducer of blood vessel constriction and platelet aggregation. Cleaves also PGH2 to 12-hydroxy-heptadecatrienoic acid (12-HHT) and malondialdehyde, which is known to act as a mediator of DNA damage. 12-HHT and malondialdehyde are formed stoichiometrically in the same amounts as TXA2. Additionally, displays dehydratase activity, toward (15S)-hydroperoxy-(5Z,8Z,11Z,13E)-eicosatetraenoate (15(S)-HPETE) producing 15-KETE and 15-HETE. [UniProtKB/Swiss-Prot Function]