

Product datasheet for **MR208546**

Tbxas1 (NM_011539) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR208546 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGTGTGGGGCTTCTCAAGTTTGAAGTCAGTGGTACCATAGTACTGTGACTCTGCTCGTGGCTC
 TCTTGGCCCTCCTGAAATGGTACTCCATGTCAGCTTTCTCAAGACTGGAGAAGTTGGGCATCAGGCACCC
 CAAGCCTTCTCCTTTTGTGGAAACTTGATGTTTTCCGCCAGGGTTTTTGGGAGAGCAATTGGAACCTC
 CGAGAGCGATACGGGCTCTGTGTGGTACTATCTTGGCCGTGGATGCACGTTGTCAATTCAGAGCCAG
 ACATGATCAAGCAGGTGTTGGTTGAGAAGTTCAGTAACTTTTCCAACAGAATGGCCTCAGGTCTGGAACC
 CAAGATGGTAGCAGACAGTGTCTGTTGTACGTGACAGAAGATGGGAGGAAGTCAGGGGTGCCCTGATG
 TCTTCATTCACTCCTGAAAAGTTGGATGAGATGACACCTCTCATCAGCCAAGCCTGTGAAGTTCTCATGG
 CTCACTTAAAACGCTATGCAGCATCCAGGGACGCATTCAACATCCAGAGGTGTTACTGCTGTTACACCAT
 AGATGTGGTGGCCAGTGTGGCCTTTGGCACCCAGGTGGACTCCCAGAATTCCTCAGAAGATCCCTTTGTG
 CAACACTGCCGGCGTGTCCACCTTCTGTATCCCCAGGCCTCTCCTGGTATTAATCTTATCATTCCAT
 CCATAATGGTCCCATTGGCCCGGATTCTGCCCAATAAGAACCAGATGAAGTGAATGGCTTTTTTAAACAC
 ACTCATTAGGAATGTGATTGCCTTACGGGACCAGCAAGCAGCAGAAGAGAGGGCGGAGAGACTTCTCGCAG
 ATGGTGTGGATGCCAGCACTCCATGAAGTCTGTGGCGTGGAAAGGCTTTGACATGGTCCCAGAATCCC
 TGTCTCTTCTGAGTGCACAAAGGAACCCCAAGGTGCCATCCTACCTCCACATCTAAGCCTTTAC
 TGTGGATGAAATTGTGGCCAGGCCTTCTCTTCTCATTGCGGGCCATGAGGTCATCACAAACACGCTG
 TCCTTCATCACATACCTGCTGGCCACCCACCCTGACTGCCAGGAGAGGCTTCTGAAAGAGGTGGACCTCT
 TCATGGGGAAGCACCCAGCCCCGAGTACCACAGCCTGCAGGAAGTCTGCCGTATCTGGACATGGTGAT
 TTCAGAGACCCTGAGGATGTACCCACAGCTTTTCAGGTTACACGGGAGGCAGCACAGGACTGTGAGGTG
 CTGGGACAACTATCCCTGCAGGTGCAGTGTGGAGATAGCTGTGGTGCCTTACACCATGACCCAGAGC
 ACTGGCCGAATCTGAGACCTTTGACCCTGAAAGGTTACAGCAGAGGCCCGGCTTACAGCGAGGCCGTT
 CACATACCTGCCCTTTGGAGCTGGCCCCAGGAGCTGCCTCGGAGTGCAGGCTGGGCTGCTGGTGGTCAAG
 CTGACAATACTCCAGGTCTACACAAGTCCGCTTTGAAGCCAGCCCTGAGACTCAGGTTCCACTTCAGC
 TAGAATCCAAATCTGCCCTAGGCCCAAAAATGGAGTCTACATCAAGATTGTGTCACGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208546 protein sequence
 Red=Cloning site Green=Tags(s)

MEVLGLLKFEVSGTIVTVTLVALLALLKWAYSMSAFSRLEKLGIRHPKPSPFVGNLMFFRQGFWESQLEL
 RERYGPLCGYYLGRMHVVISEPMIKQVLVENFSNFSNRMASGLEPKMVADSVLLLRRRWEVEVGM
 SSFSPEKLDGMTPLISQACELLMAHLKRYAASRDAFNIQRCCYTYIDVVASVAFGTQVDSQNSPEDPFV
 QHCRRASTFCIPRPLLVILSFPSSIMVPLARILPNKNRDELNGFFNTLIRNVIALRDQQAEEERRDFLQ
 MVLDAQHSMNSVGEFDMVPESLSSSECTKEPPQRCHPTSTSKPFTVDEIVGQAFLLIAGHEVITNTL
 SFITYLLATHPDCQERLLKEVDLFMGKHPAPEYHSLQEGLPYLDMVISETLRMYPPAFRFTREAAQDCEV
 LGQRIPAGAVLEIAVGALHHDPEHWPNETFDPERFTAEARLQRRPFTYLPFGAGPRSCLVRLGLLVK
 LTILQVLHKFRFEASPETQVPLQLESKSALGPKNGVYIKIVSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_011539

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_011539.2](#)

RefSeq Size: 1992 bp

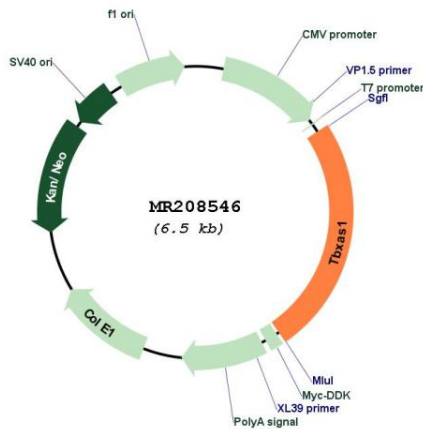
RefSeq ORF: 1602 bp

Locus ID: 21391

UniProt ID: [P36423](#)

Cytogenetics:	6 17.85 cM
MW:	60.4 kDa
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]

Product images:



Circular map for MR208546