

Product datasheet for **MG208546**

Tbxas1 (NM_011539) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbxas1 (NM_011539) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbxas1
Synonyms:	CYP5; CYP5A1; 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:

>MG208546 representing NM_011539
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGTGTGGGGCTTCTCAAGTTTGAAGTCAGTGGTACCATAGTGACTGTGACTCTGCTCGTGGCTC
 TCTTGGCCCTCCTGAAATGGTACTCCATGTGAGCTTTCTCAAGACTGGAGAAGTTGGGCATCAGGCACCC
 CAAGCCTTCTCCTTTTGTGGAACTTGATGTTTTCCGCCAGGGTTTTGGGAGAGCCAATTGGAAGT
 CGAGAGCGATACGGGCTCTGTGTGGTACTATCTGGCCGTGGATGCACGTTGTCAATTCAGAGCCAG
 ACATGATCAAGCAGGTGTGGTTGAGAAGTTCAGTAACTTTTCCAACAGAATGGCCTCAGGTCTGGAACC
 CAAGATGGTAGCAGACAGTGTCTGTTGTACGTGACAGAAGATGGGAGGAAGTCAGGGGTGCCCTGATG
 TCTTCATTCACTGCTGAAAAGTTGGATGAGATGACACCTCTCATCAGCCAAGCCTGTGAAGTCTCATGG
 CTCACTTAAAACGCTATGCAGCATCCAGGGACGCATTCAACATCCAGAGGTGTTACTGCTGTACACCAT
 AGATGTGGTGGCCAGTGTGGCCTTTGGCACCCAGGTGGACTCCCAGAATCTCCAGAAGATCCCTTTGTG
 CAACACTGCCGGCGTGTCCACCTTCTGTATCCCAGGCCTCTCCTGGTATTAATCTTATCATTCCAT
 CCATAATGGTCCCATTGGCCCGGATTCTGCCCAATAAGAACCAGATGAAGTGAATGGCTTTTTTAAACAC
 ACTCATTAGGAATGTGATTGCCTTACGGGACCAGCAAGCAGCAGAAGAGAGGGCGGAGAGACTTCTCGAG
 ATGGTGTGGATGCCAGCACTCCATGAACTCTGTGGCGTGGAAAGGCTTTGACATGGTCCCAGAATCCC
 TGTCTCTTCTGAGTGCACAAAGGAACCCCAAGGTGCCATCCTACCTCCACATCTAAGCCTTTAC
 TGTGGATGAAATTGTGGCCAGGCCTTCTCTTCTCATTGCGGGCCATGAGGTGATCACAACACGCTG
 TCCTTCATCACATACCTGCTGGCCACCCACCTGACTGCCAGGAGAGGCTTCTGAAAGAGGTGGACCTCT
 TCATGGGGAAGCAGCCAGCCCTGAGTACCACAGCCTGCAGGAAGTCTGCCGTATCTGGACATGGTGAT
 TTCAGAGACCCTGAGGATGTACCCACAGCTTTTCAAGTTTACACGGGAGGCAGCACAGGACTGTGAGGTG
 CTGGGACAACGTATCCCTGCAGGTGCAGTGTGGAGATAGCTGTGGTGCCTTACACCATGACCCAGAGC
 ACTGGCCGAATCCTGAGACCTTTGACCCTGAAAGGTTTACAGCAGAGGCCCGGCTTACAGCGAGGCCGTT
 CACATACCTGCCCTTTGGAGCTGGCCCCAGGAGCTGCCTCGGAGTGCAGGCTGGGCTGCTGGTGGTCAAG
 CTGACAATACTCCAGGTCTACACAAGTCCGCTTTGAAGCCAGCCCTGAGACTCAGGTTCCACTTCAGC
 TAGAATCCAAATCTGCCCTAGGCCCAAAAATGGAGTCTACATCAAGATTGTGTCACGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208546 representing NM_011539
 Red=Cloning site Green=Tags(s)

MEVLGLLKFVSGTIVTVTLLVALLALLKWYSMSAFSRLEKLGIRHPKPSPFVGNLMFFRQGFWESQLEL
 RERYGPLCGYYLGRMHVVISEPDMIKQVLVENFSNFSNRMASGLEPKMVADSVLLLRDRRWEVEVRGALM
 SSFSPEKLDENTPLISQACELLMHLKRYAASRDAFNIQRCYCCYTIDVVASVAFGTQVDSQNSPEDPFV
 QHCRRASTFCIPRPLLVLILSFP SIMVPLARILPNKNRDELNGFFNTLIRNVIALRDQQAEEERRRDFLQ
 MVLDAQHSMNSVGVGDFMVPESLSSSECTKEPPQRCHPTSTSKPFTVDEIVGQAFLLIAGHEVITNTL
 SFITYLLATHPDCQERLLKEVDLFMGKHPAPEYHSLQEGLPYLDMVISETLRMYPPAFRFTREAAQDCEV
 LGQRIPAGAVLEIAVGALHHDPEHWPNETFDPERFTAEARLQRRPFTYLPFGAGPRSCLVRLGLLVVK
 LTILQVLHKFRFEASPETQVPLQLESKLSALGPKNGVYIKIVSR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_011539
ORF Size:	1599 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:	<ol style="list-style-type: none">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
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]