

Product datasheet for **RC224686**

TBXAS1 (NM_030984) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBXAS1 (NM_030984) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBXAS1
Synonyms:	BDPLT14; CYP5; CYP5A1; GHOSAL; 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:

>RC224686 representing NM_030984
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGAAGCCTTGGGTTTCTAAAATTGGAAGTGAATGGCCCCATGGTGACGGTGGCCCTGTCTAGTGG
 CTCTCTGGCCCTCTGAAATGGTACTCCACATCAGCATTCTCAAGACTGGAGAAGTTAGGCCTCAGACA
 TCCCAAGCCTTCTCCTTTTCATTGAAAATTGACATTTTTCCGCCAGGGTTTTGGGAAAGCCAAATGGAG
 CTCAGAAAGCTGTATGGACCTCTGTGTGGTACTATCTTGGTCGTGGATGTTTATTGTTATTTCTGAGC
 CAGACATGATCAAGCAGGTGTTGGTTGAGAATTGAGTAACTTTACCAACAGAATGGCGTCGGGTTTGGG
 GTTCAAGTCGGTAGCCGACAGCCTTCTGTTTTACGTGACAAAAGATGGGAAGAGGTGAGAGGTGCCCTG
 ATGTCTGCTTTCAGTCTGAAAAGCTGAACGAGATGGTCCCTCATCAGCCAAGCCTGCGACCTTCTCC
 TGGCTCATTTAAAACGCTATGCGGAATCTGGGGACGATTTGACATCCAGAGGTGCTACTGCAATTACAC
 CACAGATGTGGTGGCAGCGTCGCTTTGGCACCCGGTGGACTCTGGCAGGCCCTGAGGATCCCTTT
 GTGAAACTGCAAGCGTTTCTTGAATTCTGCATCCCCAGACCTATCCTGGTTTTACTCTTATCATTTT
 CATCCATAATGGTCCCCTGCGCCGGATTTTGCCCAATAAGAACCAGACGAACTGAATGGCTTTTTTAA
 CAAACTCATTAGGAATGTGATTGCCCTTGGCGGACCAGCAAGCTGCCGAAGAGAGGCGGAGAGACTTCCTC
 CAAATGGTCTGGATGCCCGACATTCTGCAAGTCCCATGGGCGTGAAGACTTTGACATCGTCAGAGACG
 TTTTCTCTCTACTGGGTGCAAGCCGAACCTTCCCGCAACACCAGCCAGCCCTATGGCCAGGCTTT
 GACTGTGGATGAGATTGTGGGCCAGGCTTTCATCTTCTCATCGTGGCTATGAAATCATACCAACACA
 CTTTCTTTTGGCCACTACCTACTGGCCACCAACCTGACTGCCAAGAGAAGCTTCTGAGAGAGGTAGACG
 TTTTTAAGGAGAAACACATGGCCCTGAGTTCTGCAGCCTCGAGGAAGGCTGCCCTATCTGGACATGGT
 GATTGCAGAGACGCTGAGGATGTACCCGCCAGCTTTCAGATTACACGGGAGGCAGCTCAGGACTGCGAG
 GTGCTGGGGCAGCGCATCCCCGACGGCGTGTGCTAGAGATGGCCGTGGGTGCCCTGCACCATGACCCCTG
 AGCACTGGCCAAGCCCGAGACCTTCAACCCTGAAAGGTACCGCTGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224686 representing NM_030984
 Red=Cloning site Green=Tags(s)

MMEALGFLKLEVNGPMVTVALSVALLALLKWYSTSAFSRLEKLGLRHPKPSPIGNLTFFRQGFWESQME
 LRKLYGPLCGYYLGRMFIVISEPDMIKQVLVENFSNFTNRMASGLEFKSVADSVLFLRDKRWEEVRGAL
 MSAFSPEKLNEMVPLISQACDLLLAHLKRYAESGDAFDIQRCYCNYYTDDVVASVAFGTPVDSWQAPEDPF
 VKHCKRFFFEFCIPRPILVLLLSPFSIMVPLARILPNKNRDELNGFFNKLI RNVIALRDQQAEEERRRDFL
 QMVLDRHSASPMGVQDFDIVRDVFSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIAGYEIITNT
 LSFATYLLATNPDCQEKLLREVDVFKEKHMAPEFCSLEEGLPYLDMVIAETLRMYPPAFRFTREAAQDCE
 VLGQRIPAGAVLEMAVGALHHDPEHWPSPETFNPERYRCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8061_e05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_030984

ORF Size: 1380 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_030984.3](#)

RefSeq Size: 1783 bp

RefSeq ORF: 1380 bp

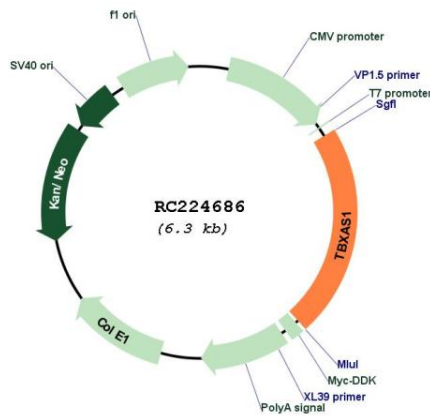
Locus ID: 6916

UniProt ID: [P24557](#)

Cytogenetics: 7q34

Domains:	p450
Protein Families:	Druggable Genome, P450
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways
MW:	52.2 kDa
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 RC224686