

Product datasheet for **RC228912**

TBXAS1 (NM_001166254) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBXAS1 (NM_001166254) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBXAS1
Synonyms:	BDPLT14; CYP5; CYP5A1; GHOSAL; THAS; TS; TXAS; TXS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC228912 representing NM_001166254
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTCAGAAAGCTGTATGGACCTCTGTGTGGTACTATCTTGGTCGTCGGATGTTTATTGTTATTT
 CTGAGCCAGACATGATCAAGCAGGTGTTGGTTGAGAACTTCAGTAACTTTACCAACAGAATGGCGTCGGG
 TTTGGAGTTCAAGTCGGTAGCCGACAGCGTTCTGTTTTTACGTGACAAAAGATGGGAAGAGGTGAGAGGT
 GCCCTGATGTCTGCTTTTCACTGCTGAAAAGCTGAACGAGATGGTCCCCTCATCAGCCAAGCCTGCGACC
 TTCTCCTGGCTCATTTAAAACGCTATGCGGAATCTGGGGACGATTTGACATCCAGAGGTGCTACTGCAA
 TTACACCACAGATGTGGTTGCCAGCGTCGCCTTTGGCACCCCGGTGGACTCCTGGCAGGCCCTGAGGAT
 CCCTTTGTGAAACACTGCAAGCGTTTCTCGAATTCTGCATCCCAGACCTATCCTGGTTTTACTCTTAT
 CATTTCCATCCATAATGGTCCCCTGCCCCGATTTTGGCCAATAAGAACCAGAGACGAATGAATGGCTT
 TTTTAAACAAACTATTAGGAATGTGATTGCCTTGGGGACAGCAAGCTGCCGAAGAGAGCGGAGAGAC
 TTCTCCTCAAATGGTCTGGATGCCCGACATTCTGCAAGTCCCATGGGCGTCAAGACTTTGACATCGTCA
 GAGACGTTTTCTCCTCTACTGGGTGCAAGCCGAACCTTCCCAGCAACACCAGCCAGCCATGAGCCAG
 GCCTTTGACTGTGGATGAGATTGTGGGCCAGGCCCTTCACTTCTCCTCATCGCTGGCTATGAAATCATCACC
 AACACACTTTCTTTTCCACCTACCTACTGGCCACCAACCCTGACTGCCAAGAGAAGCTTCTGAGAGAGG
 TAGACGTTTTTAAAGGAGAAACACATGGCCCCTGAGTCTGACGCTCGAGGAAGGCTGCCTATCTGGA
 CATGGTGATTGCAGAGACGCTGAGGATGTACCCGCCAGCTTTGAGATTACACGGGAGGCAGCTCAGGAC
 TGCGAGGTGCTGGGGCAGCGCATCCCGCAGGCGCTGTGCTAGAGATGGCCGTGGGTGCCCTGCACCATG
 ACCCTGAGCACTGGCCAAGCCCGGAGACCTTCAACCCTGAAAGGTTACAGGCTGAGGCCCGCAGCAGCA
 CCGGCCCTTACGTACCTGCCCTTCGGGGCCGGCCACGGAGCTGCCTCGGGGTGCGTCTAGGGCTGCTT
 GAGGTCAAGTTGACACTGCTCCACGTGCTGCACAAGTTCCGGTCCAAGCCTGCCCTGAGACCCAGGTAC
 CGCTGCAGCTAGAATCCAATCTGCCCTAGGTCCAAAAATGGTGTCTATATCAAGATCGTATCCCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228912 representing NM_001166254
 Red=Cloning site Green=Tags(s)

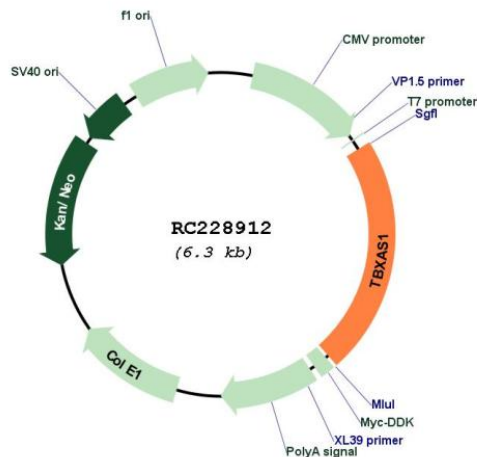
MELRKL YGPLCGYYL GRRMFIV ISEPDMIKQVL VFNFSNFTNRMASGLEFKSVADSVLFLRDKRWEEVRG
 ALMSAFSPEKLNEMVPLISQACDLLLAHLKRYAESGDAFDIQRVCYNYTTDVVASVAFGTPVDSWQAPED
 PFVKHCKRFFFCIPRPILVLLSFPSIMVPLARILPNKNRDELNGFFNKLIRNVIALRDQQAEEERRRD
 FLQMVLDARHSASPMGVQDFDIVRDVFSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIAGYEIIT
 NTL SFATYLLATNPDCQEKLREVDVFKKEMAPEFCSLEELPYLDMVIAETLRMYPPAFRFTREAAQD
 CEVLGQRIPAGAVLEMAVGALHHDPEHWPSPETFNPERFTAERQQHRPFTYLPFGAGPRSLGVRLGLL
 EVKLTLLHVLHKFRFQACPETQVPLQLESKSALGPKNGVYIKIVSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001166254

ORF Size: 1398 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_001166254.3
RefSeq Size:	2132 bp
RefSeq ORF:	1401 bp
Locus ID:	6916
UniProt ID:	P24557
Cytogenetics:	7q34
Protein Families:	Druggable Genome, P450
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways
MW:	53 kDa
Gene Summary:	<p>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]</p>