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Product datasheet for RC208028

TBXAS1 (NM_001061) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBXAS1 (NM_001061) 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:

>RC208028 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGAAGCCTTGGGGTTTCTAAAATTGGAAGTGAATGGCCCCATGGTGACGGTGGCCCTGTCAGTGG
CTCTCTTGGCCCTCCTGAAATGGTACTCCACATCAGCATTCTCAAGACTGGAGAAGTTAGGCCTCAGACA
TCCCAAGCCTTCTCCTTTCATTGGAAACTTGACATTTTTCCGCCAGGGTTTTTGGGAAAGCCAAATGGAG
CTCAGAAAGCTGTATGGACCTCTGTGTGGGTACTATCTTGGTCGTCGGATGTTTATTGTTATTTCTGAGC
CAGACATGATCAAGCAGGTGTTGGTTGAGAACTTCAGTAACTTTACCAACAGAATGGCGTCGGGTTTGGA
GTTCAAGTCGGTAGCCGACAGCGTTCTGTTTTTACGTGACAAAAGATGGGAAGAGGTCAGAGGTGCCCTG
ATGTCTGCTTTCAGTCCTGAAAAGCTGAACGAGATGGTTCCCCTCATCAGCCAAGCCTGCGACCTTCTCC
TGGCTCATTTAAAACGCTATGCGGAATCTGGGGACGCATTTGACATCCAGAGGTGCTACTGCAATTACAC
CACAGATGTGGTTGCCAGCGTCGCCTTTGGCACCCCGGTGGACTCCTGGCAGGCCCCTGAGGATCCCTTT
GTGAAACACTGCAAGCGTTTCTTCGAATTCTGCATCCCCAGACCTATCCTGGTTTTACTCTTATCATTTC
CATCCATAATGGTCCCACTGGCCCGGATTTTGCCCAATAAGAACCGAGACGAACTGAATGGCTTTTTTAA
CAAACTCATTAGGAATGTGATTGCCTTGCGGGACCAGCAAGCTGCCGAAGAGAGGCGGAGAGACTTCCTC
CAAATGGTCCTGGATGCCCGACATTCTGCAAGTCCCATGGGCGTGCAAGACTTTGACATCGTCAGAGACG
TTTTCTCCTCTACTGGGTGCAAGCCGAACCCTTCCCGGCAACACCAGCCCAGCCCTATGGCCAGGCCTTT
GACTGTGGATGAGATTGTGGGCCAGGCCTTCATCTTCCTCATCGCTGGCTATGAAATCATCACCAACACA
CTTTCTTTTGCCACCTACCTACTGGCCACCAACCCTGACTGCCAAGAGAAGCTTCTGAGAGAGGTAGACG
TTTTTAAGGAGAAACACATGGCCCCTGAGTTCTGCAGCCTCGAGGAAGGCCTGCCCTATCTGGACATGGT
GATTGCAGAGACGCTGAGGATGTACCCGCCAGCTTTCAGATTCACACGGGAGGCAGCTCAGGACTGCGAG
GTGCTGGGGCAGCGCATCCCCGCAGGCGCTGTGCTAGAGATGGCCGTGGGTGCCCTGCACCATGACCCTG
AGCACTGGCCAAGCCCGGAGACCTTCAACCCTGAAAGGTTCACGGCTGAGGCCCGGCAGCAGCACCGGCC
CTTCACGTACCTGCCCTTCGGGGCCGGCCCACGGAGCTGCCTCGGGGTGCGTCTAGGGCTGCTTGAGGTC
AAGTTGACACTGCTCCACGTGCTGCACAAGTTCCGGTTCCAAGCCTGCCCTGAGACCCAGGTACCGCTGC
AGCTAGAATCCAAATCTGCCCTAGGTCCAAAAAATGGTGTCTATATCAAGATCGTATCCCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208028 protein sequence
Red=Cloning site Green=Tags(s)

MMEALGFLKLEVNGPMVTVALSVALLALLKWYSTSAFSRLEKLGLRHPKPSPFIGNLTFFRQGFWESQME
LRKLYGPLCGYYLGRRMFIVISEPDMIKQVLVENFSNFTNRMASGLEFKSVADSVLFLRDKRWEEVRGAL
MSAFSPEKLNEMVPLISQACDLLLAHLKRYAESGDAFDIQRCYCNYTTDVVASVAFGTPVDSWQAPEDPF
VKHCKRFFEFCIPRPILVLLLSFPSIMVPLARILPNKNRDELNGFFNKLIRNVIALRDQQAAEERRRDFL
QMVLDARHSASPMGVQDFDIVRDVFSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIAGYEIITNT
LSFATYLLATNPDCQEKLLREVDVFKEKHMAPEFCSLEEGLPYLDMVIAETLRMYPPAFRFTREAAQDCE
VLGQRIPAGAVLEMAVGALHHDPEHWPSPETFNPERFTAEARQQHRPFTYLPFGAGPRSCLGVRLGLLEV
KLTLLHVLHKFRFQACPETQVPLQLESKSALGPKNGVYIKIVSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6088_h03.zip

Restriction Sites: SgfI-MluI

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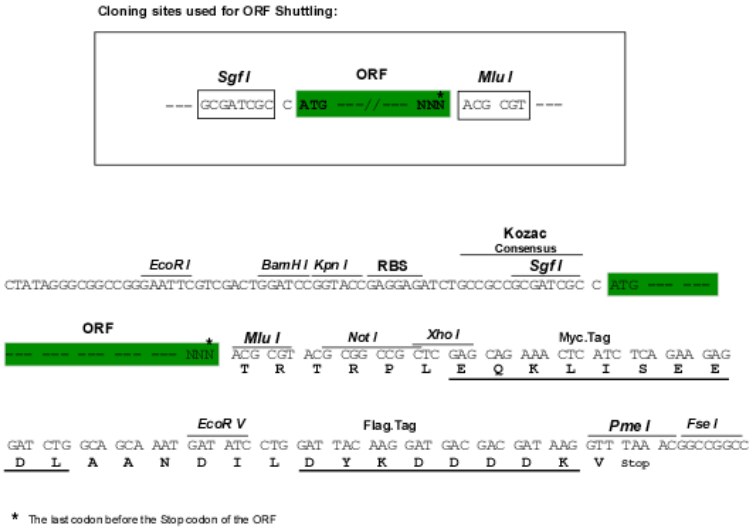
Cloning Scheme:



ACCN: NM_001061

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_001061.4

RefSeq Size: 2082 bp

RefSeq ORF: 1602 bp

Locus ID: 6916

UniProt ID: P24557

Cytogenetics: 7q34

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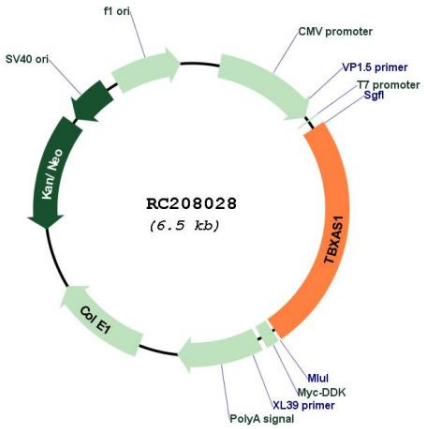
Domains:	p450
Protein Families:	Druggable Genome, P450
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways
MW:	60.6 kDa
Gene Summary:	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved 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 RC208028

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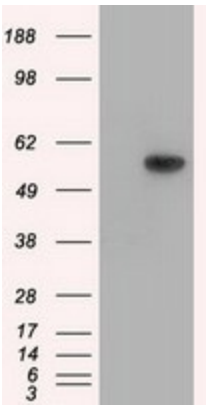
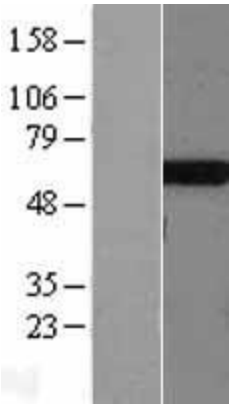
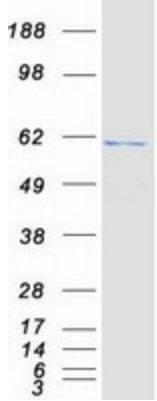


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TBXAS1 (Cat# RC208028, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TBXAS1(Cat# [TA501358]). Positive lysates [LY420741] (100ug) and [LC420741] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY427328]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225917] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TBXAS1 protein (Cat# [TP308028]). The protein was produced from HEK293T cells transfected with TBXAS1 cDNA clone (Cat# RC208028) using MegaTran 2.0 (Cat# [TT210002]).

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