

## Product datasheet for PH325917

### TBXAS1 (NM\_001130966) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	TBXAS1 MS Standard C13 and N15-labeled recombinant protein (NP_001124438)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC225917
Predicted MW:	60.6 kDa
Protein Sequence:	>RC225917 protein sequence Red=Cloning site Green=Tags(s)

MMEALGFLKLEVNPMVTVALSVALLLALLKWYSTSAFSRLEKLGRLRHPKPSPIGNLTFFRQGFWESQME  
LRKLYGPLCGYYLGRRMFIVISEPDMIKQVLVENFSNFTNRMASGLEFKSVADSVLFLRDKRWEEVRGAL  
MSAFSPEKLNEMVPLISQACDLLLAHLKRYAESGDAFDIQRQCYNYTTDVVASVAFGTPVDSWQAPEDPF  
VKHCKRFFFCIPRPILVLLSFPSIMVPLARILPNKNRDELNGFFNKLIRNVIALRDQQAEEERRRDFL  
QMVLDRHSASPMGVQDFDIVRDVFSSTGCKPNPSRQHQPSMARPLTVDEIVGQAFIFLIAGYEIITNT  
LSFATYLLATNPDCQEKLLREVDVFKEKHMAPEFCSEELPYLDMVIAETLRMYPPAFRFTREAAQDCE  
VLGQRIPAGAVLEMAVGALHHDPEHWSPETFNPERFTAEARQQHRPFTYLPFGAGPRSCLVRLGLLEV  
KLTLHLVHLHKFRFQACPETQVPLQLESKSALGPKNGVYIKIVSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001124438</u>
RefSeq Size:	2385
RefSeq ORF:	1602



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**Synonyms:** BDPLT14; CYP5; CYP5A1; GHOSAL; THAS; TS; TXAS; TXS

**Locus ID:** 6916

**UniProt ID:** [P24557](#), [Q53F23](#)

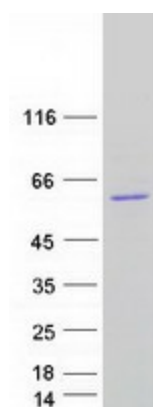
**Cytogenetics:** 7q34

**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]

**Protein Families:** Druggable Genome, P450

**Protein Pathways:** Arachidonic acid metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified TBXAS1 protein (Cat# [TP325917]). The protein was produced from HEK293T cells transfected with TBXAS1 cDNA clone (Cat# [RC225917]) using MegaTran 2.0 (Cat# [TT210002]).