Recombinant Human TBX1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TBX1-5465H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TBX1 MS Standard C13 and N15-labeled recombinant protein (NP_542378) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This gene product shares 98% amino acid sequence identity with the mouse ortholog. DiGeorge syndrome (DGS)/velocardiofacial syndrome (VCFS), a common congenital disorder characterized by neural-crest-related developmental defects, has been associated with deletions of chromosome 22q11.2, where this gene has been mapped. Studies using mouse models of DiGeorge syndrome suggest a major role for this gene in the molecular etiology of DGS/VCFS. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Molecular Mass	52.5 kDa
AA Sequence	MHFSTVTRDMEAFTASSLSSLGAAGGFPGAASPGADPYGPREPPPPPRYDPCAAA APGAPGPPPPPHAYPFAPAAGAATSAAAEPEGPGASCAAAAKAPVKKNAKVAGVS VQLEMKALWDEFNQLGTEMIVTKAGRRMFPTFQVKLFGMDPMADYMLLMDFVPVD

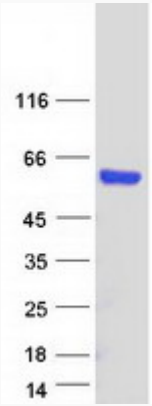
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	DKRYRYAFHSSSWLVAGKADPATPGRVHYHPDSPAKGAQWMKQIVSFDKLKLTNN LLDDNGHIILNSMHRYQPRFHVVYVDPRKDSEKYAEENFKTFVFEETRFTAVTAYQN HRITQLKIASNPFAKGFRDCDPEDWPRNHRPGALPLMSAFARSRNPVASPTQPSGT EKDAAEARREFQRDAGGPAVLGDPAHPPQLLARVLSPSLPGAGGAGGLVPLPGAP GGRPSPPNPELRLEAPGASEPLHHHPYKYPAAAYDHYLGAKSRPAPYPLPGLRGH GYHPHAHPHHHHHPVSPAAAAAAAAAAAAAAAANMYSSAGAAPPGSYDYCPRTRTR PLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TBX1 T-box 1 [Homo sapiens (human)]
Official Symbol	TBX1
Synonyms	TBX1; T-box 1; T-box transcription factor TBX1; brachyury; Testis-specific T-box protein; T-box 1 transcription factor C; DGS; TGA; CAFS; CTHM; DGCR; DORV; VCFS; TBX1C;
Gene ID	6899

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq	NM_080647
Protein Refseq	NP_542378
MIM	602054
UniProt ID	O43435
SDS-PAGE	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA