

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	MHFSTVTRDMEAFTASSLSSLGAAGGFPGAASPGADPYGPREPPPPRYDPCAAA APGAPGPPPPHAYPFAPAAGAATSAAAEPEGPGASCAAAAKAPVKKNKAVAGVS VQLEMKALWDEFNQLGTEMIVTKAGRRMFPTFQVKLFGMDPMADYMLLMDFVPVD

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DKRYRYAFHSSSWLVAGKADPATPGRVHYHPDSPAQGAQWMKQIVSFDKLKLTNN
 LLDDNGHIILNSMHRYQPRFHVVYVDPRKDSEKYAEENFKTFVFEETRFTAVTAYQN
 HRITQLKIASNPFAKGFRDCDPEDWPRNHRPGALPLMSAFARSRNPVASPTQPSGT
 EKDAAEARREFQRDAGGPAVLGDPAHPPQLLARVLSPSLPGAGGAGGLVPLPGAP
 GGRPSPPNPELRLEAPGASEPLHHHPYKYPAAAYDHYLGAKSRPAPYPLPGLRGH
 GYHPHAHPHHHPVSPAAAAAAAAAAAAAAAAANMYSSAGAAPPGSYDYCPRTTRTR
 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](#)

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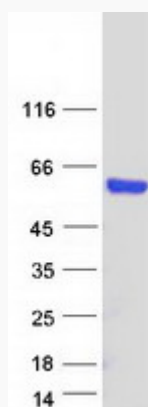
mRNA Refseq [NM_080647](#)

Protein Refseq [NP_542378](#)

MIM [602054](#)

UniProt ID [O43435](#)

SDS-PAGE



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