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

**Cat. No.** TBXT-6353H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | T MS Standard C13 and N15-labeled recombinant protein (NP_003172) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells. |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | The protein encoded by this gene is an embryonic nuclear transcription factor that binds to a specific DNA element, the palindromic T-site. It binds through a region in its N-terminus, called the T-box, and effects transcription of genes required for mesoderm formation and differentiation. The protein is localized to notochord-derived cells. Variation in this gene was associated with susceptibility to neural tube defects and chordoma. A mutation in this gene was found in a family with sacral agenesis with vertebral anomalies. |
| **Molecular Mass** | 47.3 kDa |
| **AA Sequence** | MSSPGTESAGKSLQYRVDHLLSAVENELQAGSEKGDPTERELRVGLEESELWLRFK ELTNEMIVTKNGRRMFPVLKVNVSGLDPNAMYSFLLDFVAADNHRWKYVNGEWVP GGKPEPQAPSCVYIHPDSPNFGAHWMKAPVSFSKVKLTNKLNGGGQIMLNSLHKYE PRIHIVRVGGPQRMITSHCFPETQFIAVTAYQNEEITALKIKYNPFAKAFLDAKERSDH KEMMEEPGDSQQPGYSQSGGWLLPGTSTLCPPANPHPQFGGALSLPSTHSCDRY PTLRSHRSSPYPSPYAHRNNSPTYSDNSPACLSMLQSHDNWSSLGMPAHPSMLPV |

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| | SHNASPPTSSSQYPSLWSVSNGAVTPGSQAAAVSNGLGAQFFRGSPAHYTPLTHP VSAPSSSGSPLYEGAAAATDIVDSQYDAAAQGRLIASWTPVSPPSMTRTRPLEQKLI SEEDLAANDILDYKDDDDKV |
| **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

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| **Gene Name** | TBXT T-box transcription factor T [ Homo sapiens (human) ] |
| **Official Symbol** | TBXT |
| **Synonyms** | TBXT; T-box transcription factor T; T; TFT; SAVA; T-box transcription factor T; T brachyury transcription factor; T, brachyury homolog; brachyury protein; protein T |
| **Gene ID** | 6862 |
| **mRNA Refseq** | NM_003181 |
| **Protein Refseq** | NP_003172 |
| **MIM** | 601397 |

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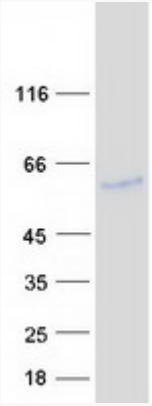
| **UniProt ID** | O15178 |
| **SDS-PAGE** |  |



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