

Recombinant Full Length Human TBX5 Protein, C-Flag-tagged

Cat. No. TBX5-998HFL **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant Full Length Human TBX5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| Species | Human |
| Source | Mammalian Cells |
| 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 is closely linked to related family member T-box 3 (ulnar mammary syndrome) on human chromosome 12. The encoded protein may play a role in heart development and specification of limb identity. Mutations in this gene have been associated with Holt-Oram syndrome, a developmental disorder affecting the heart and upper limbs. Several transcript variants encoding different isoforms have been described for this gene. |
| Form | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| Molecular Mass | 57.5 kDa |
| AA Sequence | MADADEGFGLAHTPLEPDAKDLPCDSKPESALGAPSKSPSSPQAAFTQQGMGKIKV FLHERELWLKFHEV GTEMIITKAGRRMFPSYKVKVTGLNPKTKYILLMDIVPADDHR YKFADNKWSVTGKAEPAMPGRRLYVHPD SPATGAHWMRQLVSFQKCLKLTNNHLDP FGHIILNSMHKYQPRLHIVKADENNGFGSKNTAFCTHVPETA FIAVTSYQNHKITQL KIENNPFAKGFGRSDDMELHRMSRMQSKEYPVVPRSTVRQKVASNHSPFSSESRA |

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LSTSSNLGSQYQCENGVSGPSQDLLPPPNPYPLPQEHSQIYHCTKRKEEECSTTDH
 PYKKPYMETSPSEE DSFYRSSYPQQQGLGASYRTESAQRQACMYASSAPPSEPV
 PSLEDISCNTWPSMPSYSSCTVTTVQPMDR LPYQHFSAHFTSGPLVPRLAGMANH
 GSPQLGEGMFQHQTVAHQPVVRQCQPQTGLQSPGTLQPPEFLYS
 HGVPRTLSPHQYHSHVHGVGMVPEWSDNSTRTRPLEQKLISEEDLAANDILDYKDDD
 DKV

| | |
|-------------------------|---|
| Purity | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| Stability | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| Storage | Store at -80 centigrade. |
| Concentration | >50 ug/mL as determined by microplate BCA method. |
| Preparation | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Protein Families | Druggable Genome, Transcription Factors |
| Full Length | Full L. |

GENE INFORMATION

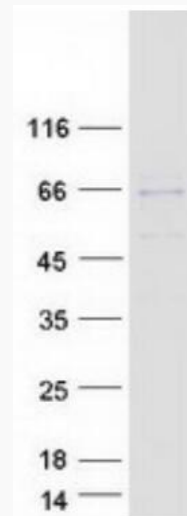
| | |
|------------------------|--|
| Gene Name | TBX5 T-box transcription factor 5 [Homo sapiens (human)] |
| Official Symbol | TBX5 |
| Synonyms | HOS |

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| | |
|----------------|-------------|
| Gene ID | 6910 |
| mRNA Refseq | NM_000192.3 |
| Protein Refseq | NP_000183.2 |
| MIM | 601620 |
| UniProt ID | Q99593 |



Coomassie blue staining of purified TBX5 protein.

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