

## Recombinant Human GTF2I

Cat. No. GTF2I-29513TH    Lot. No. (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b>   | Recombinant fragment of Human TFII I, aa 36-274 according to AAH04472.1, with N terminal proprietary tag, MW: 52.4 kDa inclusive of tag.                                                                                                                                                                                                                                                      |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>             | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>      | 239 amino acids                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>        | This gene encodes a multifunctional phosphoprotein with roles in transcription and signal transduction. It is deleted in Williams-Beuren syndrome, a multisystem developmental disorder caused by the deletion of contiguous genes at chromosome 7q11.23. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 7, 13 and 21. |
| <b>Molecular Weight</b>   | 52.400kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue specificity</b> | Ubiquitous. Isoform 1 is strongly expressed in fetal brain, weakly in adult brain, muscle, and lymphoblasts and is almost undetectable in other adult tissues, while the other isoforms are equally expressed in all adult tissues.                                                                                                                                                           |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>             | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                      |

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|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                            |
| <b>Sequences of amino acids</b> | ELAKSKAEVACIAVYETDVFVVGTERGRAFVNTRKDFQKD FVKYCVEEEEKAAEMH<br>KMKSTTQANRMSVDAVEIETLRKT VEDYFCFCYGGKALGKSTVVPVPYEKMLRDQSA<br>VVVQGLPE GVAFKHPENYDLATLKWILENKAGISFIIKRPFLPKKHV GGRVMVTDA<br>DRSILSPGGSCGPIKVKTEPTEDSGISLEMA AVTVKEESEDPDYYQYNIQGSHTSSE<br>GNEGTEMEVPAEG |
| <b>Sequence Similarities</b>    | Belongs to the TFII-I family.Contains 6 GTF2I-like repeats.                                                                                                                                                                                                          |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>                | <a href="#">GTF2I general transcription factor Ili [ Homo sapiens ]</a>                                                                                                                                                                                              |
| <b>Official Symbol</b>          | <a href="#">GTF2I</a>                                                                                                                                                                                                                                                |
| <b>Synonyms</b>                 | GTF2I; general transcription factor Ili; general transcription factor II, i , WBSCR6; general transcription factor II-I; BAP 135; BTKAP1; DIWS; IB291; SPIN; TFII I;                                                                                                 |
| <b>Gene ID</b>                  | <a href="#">2969</a>                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>              | <a href="#">NM_001163636</a>                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>           | <a href="#">NP_001157108</a>                                                                                                                                                                                                                                         |
| <b>MIM</b>                      | <a href="#">601679</a>                                                                                                                                                                                                                                               |

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| <b>Uniprot ID</b>          | P78347                                                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b> | 7q11.23                                                                                                                                                                                                                                                                           |
| <b>Pathway</b>             | B Cell Receptor Signaling Pathway, organism-specific biosystem; Basal transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; |
| <b>Function</b>            | DNA binding; mitogen-activated protein kinase binding; protein binding; sequence-specific DNA binding transcription factor activity;                                                                                                                                              |

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