

Product datasheet for **SC127927**

TFII I (GTF2I) (NM_033001) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | TFII I (GTF2I) (NM_033001) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TFII I |
| Synonyms: | BAP135; BTKAP1; DIWS; GTFII-I; IB291; SPIN; TFII-I; WBS; WBSCR6 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_033001, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCAAGTTGCAATGTCCACCCTCCCCGTTGAAGATGAGGAGTCTCGGAGAGCAGGATGGTGGTGA
CATTCTCATGTCAGCTCTCGAGTCCATGTGTAAGAAGTGGCCAAGTCCAAAGCCGAAGTGGCCTGCAT
TGCAGTGTATGAAACAGACGTGTTTGTGCTCGGAACTGAAAGAGGACGTGCTTTTGTCAATACCAGAAAG
GATTTTCAAAAAGATTTTGTAAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGA
AATCTACAACCCAGGCAATCGGATGAGTGTAGATGCTGTAGAAAATTGAAACACTCAGAAAAACAGTTGA
GGACTATTTCTGCTTTTGTCTATGGGAAAGCTTTAGGCAAAATCCACAGTGGTACCTGTACCATATGAGAAG
ATGCTGCGAGACCAGTCCGCTGTGGTAGTGCAGGGGCTCCGGAAGGTGTGCCTTTAAACACCCCGAGA
ACTATGATCTTGAACCCCTGAAATGGATTTTGGAGAACAAGCAGGGATTTTCATTCATCATTAAAGAGACC
TTTTTTAGAGCCAAAGAAGCATGTAGTGGTCTGTGTGTTAACAGATGCTGACAGGTCAATACTATCT
CCAGGTGGAAGTTGTGGCCCATCAAAGTAAAAGTGAACCCACAGAAGATTCTGGCATTCCCTGGAAA
TGGCAGCTGTGACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAGCAGGCC
TTCTGAAACTGATGATGTTGATGAAAAACAGCCCTATCGAAGCCTTTGCAAGGAAGCCACCATTCTCA
GAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATGATGATTATTCTCCACCCTCAAGAGAC
CAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGAACC CGCAATGCTGGGAAGCGGAAAGTGAAGGA
GTTCAACTTCGAGAAATGGAATGCTCGCATCACTGATCTACGTAACAAGTTGAAGAATTGTTTGAAGG
AAATATGCTCAAGCCATAAAAAGCCAAAGTCCGGTGACGATCCCTACCCTTTTCCAGTCTCATGTTG
AAGATCTTTATGTAGAAGGACTTCTGAAGGAATTCCTTTTGAAGGCCATCTACTTACGGAATTCCTCG
CCTGGAGAGGATATTACTTGAAGGAAGGATTCGTTTTGTGATTAAGAAACATGAGCTTCTGAATTC
ACACGTGAAGATTTACAGCTTGATAAGCCAGTTCAGGAGTAAAGGAAGAATGGTATGCCAGAATCACTA
AATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAAATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAA
GGCTGTACCGTACCAAAAATTTAGGCACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATT
CCTTTCCGAAGTCCCTCATGGTATGGAATCCCAAGGCTGGAAAAAATCATTCAAGTGGGCAATCGAATTA
AATTTGTTATTAAGACCAGAACTTCTGACTCACAGTACCAGTGAAGTACTCAGCCAAGAACGAATAC
ACCAGTCAAAGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGAAGAGATTTTTAATTTG
AAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTAAAAGTACCATATCCTGTGTTTGAATCAAACCCGG
AGTTCTTGATGTGGAAGGCTTGCCAGAGGGGATTCCTTCCGAAGCCCTACCTGGTTTGAATTCACG
ACTTGAAAGGATCGTCCGCGGAGTAATAAAAATCAAGTTCGTTGTTAAAAACCTGAACTAGTTATTTC
TACTTGCCTCCTGGGATGGCTAGTAAAATAAAGCTTTCAGTCCCCCAAAAGACCACGAAGTC
CTGGGAGTAATCAAAGTTCCTGAAATGAGGTACCCGTGGAAGGCCCTAATAACAACAATCCTCAAAC
CTCAGCTGTTTCGAACCCCGACCCAGACTAACGGTTCCTAACGTTCCCTTCAAGCCACGAGGGAGAGATTT
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GTGGGGAAGCTCTTGGCCTTAACAAGCTGTGAAGGTGCCGTTCCGCTTATTTGAGTCTTTCCCGAAGA
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TTAAGGAGAGCACCTCCTAAGAGCCCTCCAGAAAAATAAATTCATCACCCAATGTTAATACTACTGC
ATCAGGTGTTGAAGACCTTAACATCATTACGGTGACAATTCAGATGATGATAATGAAAGACTCTCGAAA
GTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTGTAGCGAAATTTGGTGAAGCTATTG
GTATGGGTTTTCTGTGAAAGTTCCTACAGGAAAATCACAATTAACCTGGCTGTGTGGTATGTTGATGG
CATGCCCCGGGGGTGTCCTTCAAAGCCCCAGCTACCTGGAATCAGCTCCATGAGAAGGATCTTAGAC
TCTGCCGAGTTTATCAAATTCACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACCAGCTGGTTG
ATCAGAGTGAGTCAGAAGCCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGCCAC
AGAAGAAATAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCACGTGGTAG
    
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_033001 unedited CCTGGATTTTGTAAATCCGCACTTCACTATAGGGCGGACCGCGCAATTCGGCAGCAGGCT CTCCAGCCGCGGGCCGCCCTGCCGCGGTACCCCGGCTCTGCCTCTGTCCCCAGTG ATCGGATCAAGGCGCTGAGCGAGGCCCTGCCTGCGGGGCGGCCATGCGGCGGTGACAGGA GCGCGACCGACACGCACGGGCCCTCGCCCCCTCTGCCTCTTGTCCGCTCGCCAGCTCC CCTCATCCGAGGCTGCTCCGCGGCGGCCGAGCCCGCGCGGCCACACTCGCCTCCCC TCGGACCCCGGCCCGGAGCTGCCTGGAGGCGGCCCACTCGGGGATCATGGCCCAAG TTGCAATGTCCACCCTCCCGTTGAAGATGAGGAGTCTCGGAGAGCAGGATGGTGGTGA CATTCTCATGTAGCTCTCGAGTCCATGTGTAAGAAGTGGCCAAGTCCAAAGCCGAAG TGGCTGCATTGCAGTGTATGAAACAGACGTGTTTGTCTGCGAACTGATAGAGGACGTG CTTTTGTCAATACCAGATAGGATTTTCAAAAAGATTTTGTAAAATATTGTGTTGAAGAAG AAGATAAAGTGCAGAGATGCATAAAATGAAATCTACAACCCATGCAAATCGGATGAGTG TAGATGCTGTAGATATTGANACTCAGAANAACAGTTGAGGACTATTTCTGCTTTTGTCT ATGGGAAATGCTTAGGCAATCCACAGTGGTACCTGTACCATATGATAAGATGCTGCGAGA CCAGTCAGCTGTGGTAGTGCATGGGCTTCCAGAATGTGTTGCCTTTTAACACCCCGAGTA CTATGATNNCTGCACCCCTGAATGGATCTTGGAGGACAAGCAGGGATTTCAATTCATATA AGAGACTTTTTAGAGCCAAAANNATGTAGTGGTCNTGTGATGTTAACAGAGCTGACA GGTCN</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_033001 unedited CCCCCCTCCNNTNNNTNNTACCATCCGTANCCCTNACTTGACTCTGGAACCGGGC CGCAACTAGNGATCGATTCTTTAGGGGGGAA AGGCATGGATGGATTTTATTGATTACCCTATATCTACAATTTGAGGTAATAAGAAAGCAA CACATAAAGGGCCTATTTCTGCTACCATGTCATATAATTCTCCATTGGGAATATTGGGA TAAAGCTACTGAAAATATGCCGTACAAAAGCCTAGCTTTTTGTAAAGCTGGTATTTTAC AACTCGCATTGTTGTGAAATCTCAACACATGTAATAACTCTCCTAGGAAGGCGCAAAACG TCAAAGTTGCATCCTTAGCCCCCTGACCCCTCCTCACTCCCCGGGCTGGCACCTCAGGG TTACAAGAAAACTAGGAAATAATGCCGGCCACGGGACCCTGGAGAGGGGGCCGGTTT AAAACAGCGTTCCTAAGAATCCGCGCCACAGCAGTCCCGTGTGTTGGGCTTAGTGC CATTGACCTATCCCCAATCCTTAACCCGATTTTCAACTCTGGCACACCATTGCATTTTA TTTTGGACGAAAAAGTAAAAGTGGAAAAAGTTTTCTTCTGGATTTCCCTTTTATAATTTA CACCCCTGAAAAAATTGAACCTCTGACTGTTAAGTCGACTCCAAATGGTTTTTGGCT TCTAATTTATCGACAACAAAACCATGGGAACCCATGAAAAATATCTTTAGGCAAAAAGG TTTTAATCCAAATAATACACCATCAGGAAACTTGGTTACTTACCCCATTTAAGGGAGAA CCCCGGGAAACACAGGAATCATTTAAAAGGATTTTTTTTTTTTACAATAGAAAAACCTA TAGAACCGCACCTCTCCAGGAAATNTTCTTTATTTGTAATAAACTGTAATATTTCT CACTAAGTAAAAACAAGGAGAAATCCTTCCCTCTGCTCGGCCAACAC</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_033001 |
| Insert Size: | 4880 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_033001.1](#), [NP_127494.1](#)

RefSeq Size: 4517 bp

RefSeq ORF: 2934 bp

Locus ID: 2969

UniProt ID: [P78347](#)

Cytogenetics: 7q11.23

Domains: GTF2I

Protein Families: Transcription Factors

Protein Pathways: Basal transcription factors

Gene Summary: This gene encodes a phosphoprotein containing six characteristic repeat motifs. The encoded protein binds to the initiator element (Inr) and E-box element in promoters and functions as a regulator of transcription. This locus, along with several other neighboring genes, is deleted in Williams-Beuren syndrome. There are many closely related genes and pseudogenes for this gene on chromosome 7. This gene also has pseudogenes on chromosomes 9, 13, and 21. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Jul 2013]
Transcript Variant: This variant (3) lacks an alternate in-frame exon, compared to variant 1. The encoded isoform (3, also known as alpha) is shorter than isoform 1.