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Product datasheet for SC127950

TFII I (GTF2I) (NM_001518) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFII I (GTF2I) (NM_001518) 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:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_001518, the custom clone sequence may differ by one or more nucleotides

ATGGCCCAAGTTGCAATGTCCACCCTCCCCGTTGAAGATGAGGAGTCCTCGGAGAGCAGGATGGTGGTGA
CATTCCTCATGTCAGCTCTCGAGTCCATGTGTAAAGAACTGGCCAAGTCCAAAGCCGAAGTGGCCTGCAT
TGCAGTGTATGAAACAGACGTGTTTGTCGTCGGAACTGAAAGAGGACGTGCTTTTGTCAATACCAGAAAG
GATTTTCAAAAAGATTTTGTAAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGA
AATCTACAACCCAGGCAAATCGGATGAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGA
GGACTATTTCTGCTTTTGCTATGGGAAAGCTTTAGGCAAATCCACAGTGGTACCTGTACCATATGAGAAG
ATGCTGCGAGACCAGTCGGCTGTGGTAGTGCAGGGGCTTCCGGAAGGTGTTGCCTTTAAACACCCCGAGA
ACTATGATCTTGCAACCCTGAAATGGATTTTGGAGAACAAAGCAGGGATTTCATTCATCATTAAGAGACC
TTTTTTAGAGCCAAAGAAGCATGTAGGTGGTCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCT
CCAGGTGGAAGTTGTGGCCCCATCAAAGTGAAAACTGAACCCACAGAAGATTCTGGCATTTCCCTGGAAA
TGGCAGCTGTGACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAAGGAAGCCA
CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATGATGATTATTCTCCACCG
TCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGAACCCGCCAATGCTGGGAAGCGGA
AAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATT
GTTTGAAAGGAAATATGCTCAAGCCATAAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCCAG
TCTCATGTTGAAGATCTTTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTAGAAGGCCATCTACTTACG
GAATTCCTCGCCTGGAGAGGATATTACTTGCAAAGGAAAGGATTCGTTTTGTGATTAAGAAACATGAGCT
TCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGAAGAATGGTATGCC
AGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAAATTTGCGGAAGCCTTGGGGAGCA
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AGAAAACATTCCTTTCCGAAGTCCCTCATGGTATGGAATCCCAAGGCTGGAAAAAATCATTCAAGTGGGC
AATCGAATTAAATTTGTTATTAAAAGACCAGAACTTCTGACTCACAGTACCACTGAAGTTACTCAGCCAA
GAACGAATACACCAGTCAAAGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGGAAGAGAT
TTTTAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTAAAAGTACCATATCCTGTGTTTGAA
TCAAACCCGGAGTTCTTGTATGTGGAAGGCTTGCCAGAGGGGATTCCCTTCCGAAGCCCTACCTGGTTTG
GAATTCCACGACTTGAAAGGATCGTCCGCGGGAGTAATAAAATCAAGTTCGTTGTTAAAAAACCTGAACT
AGTTATTTCCTACTTGCCTCCTGGGATGGCTAGTAAAATAAACACTAAAGCTTTGCAGTCCCCCAAAAGA
CCACGAAGTCCTGGGAGTAATTCAAAGGTTCCTGAAATTGAGGTCACCGTGGAAGGCCCTAATAACAACA
ATCCTCAAACCTCAGCTGTTCGAACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGG
GAGAGAGTTTTCCTTTGAGGCCTGGAATGCCAAAATCACGGACCTAAAACAGAAAGTTGAAAATCTCTTC
AATGAGAAATGTGGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGGTGCCGTTCGCGTTATTTGAGTCTT
TCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGGTGTGCCATTCCGAAGACCATCGACTTTTGGCAT
TCCGAGGCTGGAGAAGATACTCAGAAACAAAGCCAAAATTAAGTTCATCATTAAAAAGCCCGAAATGTTT
GAGACGGCGATTAAGGAGAGCACCTCCTCTAAGAGCCCTCCCAGAAAAATAAATTCATCACCCAATGTTA
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ACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTTAGTCGGAAATTTGGT
GAAGCTATTGGTATGGGTTTTCCTGTGAAAGTTCCCTACAGGAAAATCACAATTAACCCTGGCTGTGTGG
TAGTTGATGGCATGCCCCCGGGGGTGTCCTTCAAAGCCCCCAGCTACCTGGAAATCAGCTCCATGAGAAG
GATCTTAGACTCTGCCGAGTTTATCAAATTCACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAAC
CAGCTGGTTGATCAGAGTGAGTCAGAAGGCCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAG
TTCCAGCCACAGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCCACGTG
GTAG

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_001518 unedited
CGCGGCCGCCCGCCTGCCGCGGTCACCCCGGCCTCTGCCTCTGTCCCCCAGTGATCGGAT
CAAGGCGCTGAGCGAGGCCCTGCCTGCGGGGCGGCCATGCGGCGGTGACAGGAGCGCGAC
CGACACGCACGGGCCCCTCGCCCCCTCTCGCCTCCCGTCCGCTCGCCAGCTCCCCTCAGC
CGAGGCTGCTCCGCGGCGGCCGCAGCCCGCGCCGCGGCCCCACACCTCGCCCTCCCCCCN
TNCCGGGGCCC
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_001518 unedited
GATCAATGGGGAGTGGTCACAGGGATGCCACCCGGGCTCTGTTCAGGNAAAAGCTATGAC
CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAAGGCA
TGGATGGATTTTATTGATTACCCTATATCTACAATTTGAGGTAAAATAGAAGCAACACAT
AAAAGGGCCTATTTCTGCTACCATGTCATATAATTCTCCATTGTGAATATTGTGATAAAG
CTACTGAAAACTATGCCGTCACAGAGCCTAACTTCTTGTAGAGCTGGTATTTTACAACTC
GCATTGCTTGTGAAATCTCAACACATGTAAGACTCTCCTAGGAAGGCGCAAAACGTCAGA
GGTTGCATCCTTAGCCCCCTGACCCCTCCTCACTCCCCGCGCTGGCACCTCAGGGTTACA
AGAAGAACTAGGAAATAATGCCGGCCACGGCGACCCCTGGAGAGGGGGCCGGCTAGAACA
GCGTTCCTAAGAATCCGCGCCACAGCAGGTCCCGCGATGTTGGGGCCTTAGTGTCATCGA
GCTAGCCCCAATCCTCAACCCGATCTTCAACTTCTGGTACACCATGCATTTTATTTGGAC
GAAAAGTAAAAGTGGAAGAGGTTCTCTCTGTATTTCCTCTATAATTCACACGCTGAGATA
CTGACCTCTGACTGTTAGGTGATCCAGATGGTTTTGCTTTTAATTATGATAAAAAAACAT
AGGAACCATGAGAGATAGCTTAGGAAAAGTTTTAGTCAAATATACAGATAGGAACTGTTC
ACTCAGTCATTAAGGAGAGCCGTGAACAAAGGATCATTTAAATGGATTTTTTTTTTTTTC
AATAGNAAAACTAAAGAACTGAACTATC
```

Restriction Sites: Please inquire

ACCN: NM_001518

Insert Size: 4400 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_001518.2, NP_001509.2

RefSeq Size: 4422 bp

RefSeq ORF: 2874 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 (4) lacks two alternate in-frame exons, compared to variant 1. The encoded isoform (4, also known as delta) is shorter than isoform 1.