

Product datasheet for RC213431

TFII I (GTF2I) (NM_032999) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFII I (GTF2I) (NM_032999) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TFII I
Synonyms:	BAP135; BTKAP1; DIWS; GTFII-I; IB291; SPIN; TFII-I; WBS; WBSCR6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213431 representing NM_032999 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCAAGTTGCAATGTCCACCCTCCCCGTTGAAGATGAGGAGTCTCGGAGAGCAGGATGGTGGTGA
CATTCTCATGTCAGCTCTCGAGTCCATGTGTAAGAAGTGGCCAAGTCCAAAGCCGAAGTGGCCTGCAT
TGCAGTGTATGAAACAGACGTGTTGTCGTCGGAAGTAAAGAGGACGTGCTTTTGTCAATACCAGAAA
GATTTTCAAAAAGATTTGTAATAATTGTGTTGAAGAAGAAGAAAAGCTGCAGAGATGCATAAAATGA
AATCTACAACCCAGGCAAATCGGATGAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGA
GGACTATTTCTGCTTTTGTCTATGGGAAAGCTTTAGGCAAATCCACAGTGGTACCTGTACCATATGAGAAG
ATGCTGCGAGACCAGTCGGCTGTGGTAGTGCAGGGGCTTCCGGAAGGTGTTGCCTTTAAACACCCCGAGA
ACTATGATCTTGCAACCCGAAATGGATTTTGGAGAACAAGCAGGGATTTTCATTCATCATTAAAGAGACC
TTTTTTAGAGCCAAAGAAGCATGTAGGTGGTCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCT
CCAGGTGGAAGTTGTGGCCCATCAAAGTGAAGTGAACCCACAGAAGATTCTGGCATTTCCTGGAAA
TGGCAGCTGTGACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAGCAGGCC
TTCTGAAACTGATGATGTTGATGAAAAACAGCCCTATCGAAGCCTTTGCAAGGAAGCCACCATTCTTCA
GAGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCAACATGTCCTTCAGAAACAA
GTGAGGACCTGAAGTTGAGGTGACTATTGAAGATGATGATTATTCTCCACCGTCTAAGAGACCAAAGGC
CAATGAGTACCGCAGCCACCAGTCCCAGAACCCGCAATGCTGGGAAGCGGAAAGTGAAGGAGTTCAAC
TTCAGAAATGGAATGCTCGCATCACTGATCTACGTAACAAGTTGAAGAATTGTTTGAAGGAAATATG
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AAAGATGGTGGATCAGCTTTTCTGCAAAAATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTA



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CCGTACCAAAAATTTGAGGCACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCCTTTCC
 GAAGTCCCTCATGGTATGGAATCCCAAGGCTGGAAAAATCATTCAAGTGGGCAATCGAATTAATTTGT
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 AAAGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGAAGAGATTTTTAATTTGAAATTTG
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 AGGATCGTCCGCGGAGTAATAAAATCAAGTTCGTTGTTAAAAACCTGAAGTATTTCTACTTGC
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 TAATTCAAAGGTTCTGAAATTGAGGTCACCGTGAAGGCCCTAATAACAACAATCTCAAACCTCAGCT
 GTTCGAACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGGGAGAGAGTTTTCTTTG
 AGGCTGGAATGCCAAAATCACGGACTAAAACAGAAAGTTGAAAATCTCTTCAATGAGAAATGTGGGA
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 TTTTCTGTGAAAGTTCCCTACAGGAAAATCACAATTAACCCTGGCTGTGTGGTGGTTGATGGCATGCC
 CCGGGGTGTCCTTCAAAGCCCCAGCTACCTGGAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCG
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 TGAGTCAGAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTCCAGCCACAGAAGAA
 ATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCACGTGG

ACGCGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213431 representing NM_032999
 Red=Cloning site Green=Tags(s)

MAQVAMSTLPVEDEESSESRMVVTFILMSALESMCKELAKSKAEVACIAYVETDVFVVGTERGRAFVNTRK
 DFQKDFVKYCVVEEEKAEMHKMKSTTQANRMSVDAVEIETLRKTVEDYFCFCYKALGKSTVVPVYK
 MLRDQSAVVVQGLPEGVAFKHPENYDLATLKWILENKAGISFIIKRPFLPKKHVGRVMVTDADRSILS
 PGGSCGPIKVKTEPTEDSGISLEMAAVTVKEESEDPDYYQYNIQAGPSETDDVDEKQPLSKPLQGS
 HSS ENEGTEMEVPAEDSTQHVPSETSEDPEVEVTIEDDDYSPPSKRPKANELPQPPVPEPANAGKRK
 VREFN FEKWNARITDLRKQVEELFERKYAQAIKAKGPVTIPYPLFQSHVEDLYVEGLPEGIPFRP
 STYGIPLRE RILLAKERIRFVIKKHELLNSTREDLQDKPASGVKEEWYARITKLRKMDQLFCKKFA
 EALGSTAEKAV PYQKFEAHPNDLYVEGLPENIPFRSPSWYGIPLREKIIQVGNRIKFVIKRP
 ELLTHSTTEVTQPRNTNPV KEDWNVRIKLRKQVEEIFNLKFAQALGLTEAVKVPYPVFESNPEFL
 YVEGLPEGIPFRSPSTWFGIPLRE RIVRGSNKIKFVVKPELVISYLPFGMASKINTKALQSPKR
 PRSPGSNSKVPEIEVTVVEGPNNNNPQTS VRTPTQTNGSNVFPKPRGREFSFEAWNAKITDLKQK
 VENLFNEKCGEALGLKQAVKVPFALFESFPEDFY VEGLEPGVPFRPSTFGIPLREKILRNKAKIK
 FIIKKPEMFETAIKESTSSKSPPRKINSSPNVNTASG VEDLNIIQVTIPDDNERLSKVEKARQL
 REQVNDLFSRKFGAIGMGFPVKVYPRKITINPGCVVVDGMP PGVSFKAPSYLEISSMRRILDSA
 EFIKFTVIRPFPLVINQLVDQSESEGPVIQESAEPQSLEVPATEE IKETDSSQIKQEPDPTW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032999

ORF Size: 2994 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

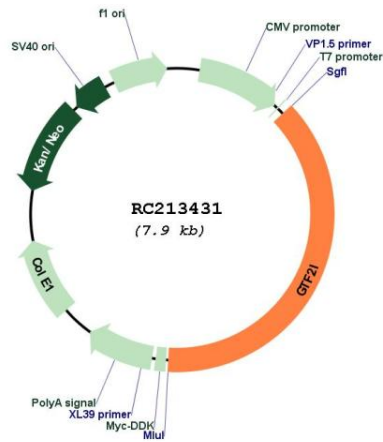
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_032999.2](#), [NP_127492.1](#)

RefSeq Size: 4529 bp

RefSeq ORF:	2997 bp
Locus ID:	2969
UniProt ID:	P78347
Cytogenetics:	7q11.23
Domains:	GTF2I
Protein Families:	Transcription Factors
Protein Pathways:	Basal transcription factors
MW:	112.4 kDa
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]

Product images:



Circular map for RC213431