

Product datasheet for **RC209126**

TFII I (GTF2I) (NM_001518) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFII I (GTF2I) (NM_001518) 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)



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ORF Nucleotide Sequence:

>RC209126 representing NM_001518
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAAGTTGCAATGTCCACCTCCCCGTTGAAGATGAGGAGTCCTCGGAGAGCAGGATGGTGGTGA
 CATTCTCATGTGAGCTCTCGAGTCCATGTGTAAGAAGCTGGCCAAGTCCAAAGCCGAAGTGGCCTGCAT
 TGCAGTGTATGAAACAGACGTGTTTGTCTGCGAACTGAAAGAGGACGTGCTTTTGTCAATACCAGAAAG
 GATTTTCAAAAAGATTTTGTAAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGA
 AATCTACAACCCAGGCAATCGGATGAGTGTAGATGCTGTAGAAAATTGAAACACTCAGAAAAACAGTTGA
 GGACTATTTCTGCTTTTGTCTATGGGAAAGCTTTAGGCAAAATCCACAGTGGTACCTGTACCATATGAGAAG
 ATGCTGCGAGACCAGTCGGCTGTGGTGTGTCAGGGGCTCCGGAAGGTGTGCCTTTAACACCCCGAGA
 ACTATGATCTTGCAACCCGAAATGGATTTTGGAGAACAAGCAGGGATTCATTCATCATTAAAGAGACC
 TTTTTTAGAGCCAAAGAAGCATGTAGTGGTTCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCT
 CCAGGTGGAAGTTGTGGCCCATCAAAGTGAAGAACTGAACCCACAGAAGATTCGGCATTCCCTGGAAA
 TGGCAGCTGTGACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAACATTCAGGAAGCCA
 CCATTCTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATGATGATTATTCTCCACCG
 TCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGAACCCGCAATGCTGGGAAGCGGA
 AAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCGCATCACTGATCTACGTAACAAGTTGAAGAATT
 GTTTGAAAGGAAATATGCTCAAGCCATAAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTCCAG
 TCTCATGTTGAAGATCTTATGTAGAAGGACTTCTGAAGGAATTCCTTTTGAAGGCCATCTACTTACG
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 TCTGAATTC AACACGTGAAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGAAGAATGGTATGCC
 AGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAAATTTGCGGAAGCCTTGGGGAGCA
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 AGAAAACATTCCTTTCCGAAGTCCCTCATGGTATGGAATCCCAAGGCTGGAAAAATCATTCAAGTGGGC
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 TTTTAATTTGAAATTTGCTCAAGCTCTTGACTCACCGAGGCAGTAAAAGTACCATATCCTGTGTTTGAA
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 AGTTATTTCTACTTGCCTCCTGGGATGGCTAGTAAAAATAACACTAAAGCTTTCGAGTCCCCAAAAGA
 CCACGAAGTCTGGGAGTAATCAAAGGTTCTGAAATTGAGGTCACCGTGGAAAGGCCATAAACAACA
 ATCCTCAAACCTCAGCTGTTCAACCCCGACCCAGACTAACGGTCTAACGTTCCCTTCAAGCCAGGAG
 GAGAGAGTTTTCTTTGAGGCCTGGAATGCCAAAATCACGGACCTAAAACAGAAAGTTGAAAATCTCTTC
 AATGAGAAATGTGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGGTGCCGTTTCGCTTATTTGAGTCTT
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 TCCGAGGCTGGAGAAGATACTCAGAAACAAGCCAAAATTAAGTTCATCATTAAAAAGCCGAAATGTTT
 GAGACGGCGATTAAGGAGAGCACCTCCTCTAAGAGCCCTCCAGAAAAATAAATTCATCACCCAATGTTA
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 GAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAATCACAATTAACCTGGCTGTGTGG
 TGGTTGATGGCATGCCCCGGGGGTGTCCTTCAAAGCCCCAGCTACCTGGAAATCAGCTCCATGAGAAG
 GATCTTAGACTCTGCCAGTTTATCAAATTCACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAAC
 CAGCTGGTTGATCAGAGTGAAGCAGAGCCCGTGATAACAAGAAATCAGCTGAACCAAGCCAGTTGGAAG
 TTCAGCCACAGAAGAAATAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCACGTTG
 G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209126 representing NM_001518
 Red=Cloning site Green=Tags(s)

MAQVAMSTLPVEDEESSESRMVVTFLMSALESMCKELAKSKAEVACIAVYETDVFVVGTERGRAVNTTRK
 DFQKDFVKYCVVEEEKAEMHKMKSTTQANRMSVDAVEIETLRKTVEDYFCFCYKALGKSTVVPVPEK
 MLRDQSAAVVVQGLPEGVAFKHPENYDLATLKWILENKAGISFIIKRPFLPKKHVGGVMVTDADRSL
 PGGSCGPIKVKTEPTEDSGISLEMAAVTVKEESEDPDYQYNIQGSHSSEGNTEMEVPAEDDDYSPP
 SKRPKANLPPPPVPEPANAGKRKRVREFNFEKWNARITDLRKQVEELFERKYAQAIKAGPVTIPYPLFQ
 SHVEDLYVEGLPEGIPFRFPSTYGIPLRERILLAKERIRFVIKKHELLNSTREDLQDKPASGVKEEYWA
 RITKLRKMDVQLFCKKFAEALGSTEAKAVPYQKFEAHPNDLYVEGLPENIPFRSPSWYGIPLREKIIQVG
 NRIKFVIKRPPELLTHSTTEVTQPRNTNPKEDWNVKITKLRKQVEEIFNLKFAQALGLTEAVKVPYPVFE
 SNPEFLYVEGLPEGIPFRSPTWFGIPLRERIVRGSNKIKFVVKKPELVISYLPFGMASKINTKALQSPKR
 PRSPGSNSKVPEIEVTVGPNNNNPQTSVRTPTQTNGSNVFPKPRGREFSFEAWNAKITDLKQKVENLF
 NEKCGEALGLKQAVKVPFALFESFPEDFYVEGLPEGVFPFRPSTFGIPLREKILRNKAKIKFIIKKPEMF
 ETAIKESTSSKSPRKINSSPNVNTTASGVEDLNIIQVTIPDDNERLSKVEKARQLREQVNDLFSRKF
 EAIGMGFPVKVPYRKITINPGCVVVDGMPGVSFKAPSYLEISSMRRILDSAEIFKFTVIRPFPLVINN
 QLVDQSESEGPVIQESAEPSQLVPAETEEIKETDGSSQIKQEPDPTW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8079_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



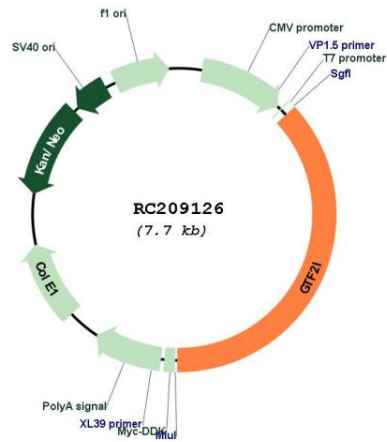
* The last codon before the Stop codon of the ORF

ACCN: NM_001518

ORF Size: 2871 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:	<ol style="list-style-type: none">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_001518.3
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
MW:	107.8 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 RC209126