

Product datasheet for **RG210502**

TFII I (GTF2I) (NM_033001) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFII I (GTF2I) (NM_033001) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFII I
Synonyms:	BAP135; BTKAP1; DIWS; GTFII-I; IB291; SPIN; TFII-I; WBS; WBSCR6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210502 representing NM_033001
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCAAGTTGCAATGTCCACCTCCCCGTTGAAGATGAGGAGTCCTCGGAGAGCAGGATGGTGGTGA
 CATTCTCATGTAGCTCTCGAGTCCATGTGTAAGAAGCTGGCCAAGTCCAAAGCCGAAGTGGCCTGCAT
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 GGACTATTTCTGCTTTTGTCTATGGGAAAGCTTTAGGCAATCCACAGTGGTACCTGTACCATATGAGAAG
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 AGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCACGCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210502 representing NM_033001
 Red=Cloning site Green=Tags(s)

MAQVAMSTLPVEDEESSESRMVVTFLMSALESMCKELAKSKAEVACIAVYETDVFVVGTERGRAVFNTRK
 DFQKDFVKYCVVEEEKAEMHKMKSTTQANRMSVDAVEIETLRKTVEDYFCFCYKALGKSTVVPVPEK
 MLRDQSAAVVVQGLPEGVAFKHPENYDLATLKWILENKAGISFIIKRPFLPEPKKHVGGRMVTDADRILS
 PGGSCGPIKVKTEPTEDSGISLEMAAVTVKEESEDPDYQYNIQAGPSETDDVDEKQPLSKPLQGSHHSS
 EGNEGTEMEVPAEDDDYSPPSKRKPANELPQPPVPEPANAGKRKVRENFNEKWNARITDLRKQVEELFER
 KYAQAIKAKGPVTIPYPLFQSHVEDLYVEGLPEGIPFRPSTYGIPLRLERILLAKERIRFVIKKHELLNS
 TREDLQLDKPASGVKEEWYARITKLRKMDQLFCKKFAEALGSTEAKAVPYQKFEAHPNDLYVEGLPENI
 PFRSPSWYGIPLREKIIQVGNRIKFKVIRPELLTHSTTEVTQPRNTNPKEDWNVRITKLRKQVEEIFNL
 KFAQALGLTEAVKVPYPVFEVSNPEFLYVEGLPEGIPFRSPTWFGIPRLERIVRGSNKIKFVVKKPELVIS
 YLPPGMASKINTKALQSPKRPRSPGSNSKVPEIEVTVEGPNNNNPQTSAVRTPTQTNGSNVPFKPRGREF
 SFEAWNAKITDLKQKVENL FNEKCGEALGLKQAVKVPFALFESFPEDFYVEGLPEGVPPFRPSTFGIPRL
 EKILRNKAKIKFIIKKPEMFETAIKESTSSKSPPRKINSSPNVNTASGVEDLNIQVTIPDDDNERLSK
 VEKARQLREQVNDLFSRKFGAIGMGFPVKVPYRKITINPGCVVDGMPPGVSFKAPSYLEISSMRRIILD
 SAEFIKFTVIRPFPGLVINNQLVDQSESEGPVIQESAEPVQLEVPATEEIKETDGSQIKQEPDPTW

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

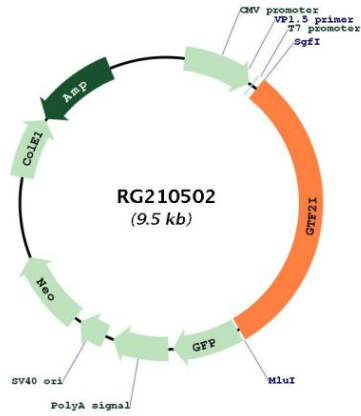


ACCN: NM_033001

ORF Size: 2931 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_033001.2 , NP_127494.1
RefSeq Size:	4466 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]

Product images:



Circular map for RG210502