

Product datasheet for **RG204607**

TFIIB (GTF2B) (NM_001514) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TFIIB (GTF2B) (NM_001514) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | TFIIB |
| Synonyms: | TF2B; TFIIB |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG204607 representing NM_001514 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCTACCAGCCGTTGGATGCTCTTCCAAGAGTCACATGTCCAAACCATCCAGATGCGATTTTAG
TGGAGGACTACAGAGCCGGTGATATGATCTGTCTGAATGTGGCTTGGTTGTAGGTGACCGGTTATTGA
TGTGGGATCTGAATGGCGAACTTTCAGCAATGACAAAGCAACAAAAGATCCATCTCGAGTTGGAGATTCT
CAGAATCCTCTTCTGAGTATGGAGATTTGTCTACCATGATTGGCAAGGGCACAGGAGCTGCAAGTTTTG
ACGAATTTGGCAATTCTAAGTACCAGAATCGGAGAACAATGAGCAGTTCTGATCGGGCAATGATGAATGC
ATTCAAAGAAATCACTACCATGGCAGACAGAATCAATCTACCTCGAAATATAGTTGATCGAACAAATAAT
TTATTCAGCAAGTATATGAACAGAAGAGCCTGAAGGGAAGAGCTAATGATGCTATAGCTTCTGCTTGTCT
TCTATATTGCCTGTAGACAAGAAGGGGTTCTTAGGACATTTAAAGAAATATGTGCCGTATCACGAATTTCT
TAAGAAAGAAATTGGTCGGTGTTTAACTTATTTTGAAGCGCTAGAAACCAAGTGTGGATTTGATTACA
ACTGGGACTTCATGTCCAGTTCTGTTCCAACCTTTGTCTTCTAAACAAGTACAGATGGCAGCTACAC
ATATAGCCCGTAAAGCTGTGGAATTGGACTTGGTTCTGGGAGGAGCCCCATCTGTGGCAGCGGCAGC
TATTTACATGGCCTCACAGGCATCAGCTGAAAAGAGGACCCAAAAAGAAATTGGAGATATTGCTGGTGT
GCTGATGTTACAATCAGACAGTCTATAGACTGATCTATCCTCGAGCCCCAGATCTGTTTCTACAGACT
TCAAATTTGACACCCCACTGGACAACTACCACAGCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204607 representing NM_001514
 Red=Cloning site Green=Tags(s)

MASTRRLDALPRVTCPNHPDAILVEDYRAGDMICPECGLVVGDRVIDVGSEWRTF SNDKATKDPSRVGDS
 QNPLLSDGDLSTMIGKGTGAASFDEFNGSKYQNRRTMSSSDRAMNAFKEITTMADRINLPRNIVDR TNN
 LFKQVYEQKSLKGRANDAIASACLYIACRQEGVPRTFKEICAVSRISKKEIGRCFKLILKALET SVDLIT
 TGD FMSRFCSNLCLPKQVQMAATHIARKAVELDLVPGRSPISVAAAAIYMASQASAEKRTQKEIGDIAGV
 ADVTIRQSYRLIYPRAPDLFPTDFKFDTPVDKLPQL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001514

ORF Size: 948 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_001514.5](#)

RefSeq Size: 1304 bp

RefSeq ORF: 951 bp

Locus ID: 2959

UniProt ID: [Q00403](#)

Cytogenetics: 1p22.2

Domains: transcript_fac2, CYCLIN

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Basal transcription factors

Gene Summary: This gene encodes the general transcription factor IIB, one of the ubiquitous factors required for transcription initiation by RNA polymerase II. The protein localizes to the nucleus where it forms a complex (the DAB complex) with transcription factors IID and IIA. Transcription factor IIB serves as a bridge between IID, the factor which initially recognizes the promoter sequence, and RNA polymerase II. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204607