

Product datasheet for **RG202276**

GTF3C2 (NM_001521) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTF3C2 (NM_001521) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GTF3C2
Synonyms:	TFIIIC-BETA; TFIIC110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG202276 representing NM_001521
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATACCTGCGGGGTGCGCTATGTTGCCTGGGGAGGCCGGCCCGTGGGGAACATGACTGTGGTAG
 ACTCTCCTGGACAAGAGGTGCTAAATCAGCTTGATGTCAAGACCTTTCAGAAATGACCAGTGCAGAGGC
 TTCCTAGAGATGTCATTACCTACCCCTTTCCTGGATTGAGGATTCTCCTGATCAGAGGAGGCTCCCT
 CCAGAGCAGGAAAGCCTCTCCAGACTGGAACAGCCAGATCTTTCTCAGAGATGTCAAAGGTCTCAAAGC
 CTAGGGCCTCAAAGCCTGGCCGGAAGAGAGGTGGTAGGACACGAAAAGGCCCAAAAGGCCCAACAGCC
 TAATCCTCCATCAGCCCCACTGGTTCCTGGTCTCTTAGATCAATCCAACCTCTGTCCACCCCATGCT
 AAGAAACGAGGTGAAAGTCCAAGGCAGAGCTGCTGCTGCTGAAGTTGTCAAAGACCTAGATCGGCCAG
 AATCTCAATCTCAAAGAGGCCCTTGGAGACTTTGAGACCCCTTCTGGGGAACGACCCCGCGAAGGGC
 TGCCCAAGTGGCACTTCTGTATCTCAGGAAGTGGCTGAAGAGCTCTCAACAGCCCTGCCTGCCCTGTG
 TCCTGTCTGAGGGCCCAAGGTGAGCAGCCCAACCAAGCAAGATCCGGCAGCCAGCAGCCTGTC
 CAGGTGGAGAAGAGGTGGATGGTCTCCACGGATGAAGACTTTTTCTCCAGGTTGAGGCTGAAGATGT
 GGAAGAAAGTGAAGGCCCAAGTGAAGCTCATCTGAACCTGAGCCTGTAGTGCCCGAAGCACCCACGA
 GGATCTACTTCAGGAAACAGAAACCACTGCCGAGGAATGGCTCCCAATGGCTTACCAGATCATATCA
 TGGCTCCTGTTTGAAGTGCCTCCATCTCACCAGGACTCCGAGAGCAGAAACATTCATACTGGGAGTT
 TGCTGAGTGGATTCCTTAGCCTGGAAGTGGCACTTGTATCTGAGCTTGAGGCCCTCCCTACCTGCC
 CAGGAGGAGAAGTCTCCATTGTTTTCTGTACAACGTGAAGGGCTACCTGAAGATGGCACCTCTACCGAA
 TAAACGATTTAGCTCGATCACAGCACATCCAGAGCGCTGGGATGTGCCTTCTCACGGGGGACCGCT
 CTGGGCTCTGGACTGGTGCACAGTGCCAGAGGGGCGAGGAGCCTCGCAATATGTGGCTCTTTCTCCAGC
 CCTGACATGAATGAGACACCCACTGAGCCAGCTTCATTGCGGTCTGGGCTGCTCCAGCTCTGGGCC
 TTGGGACCTTGCAGCAAGAAAGCTGTCTGGCAACAGGGCCACTTTGTCTATGGGATTGCTGTGACAA
 CGGCTGCATCTGGGACCTCAAGTCTGCCCCAGTGGAGCATGGGAACTCCAGGCACCCCTCGGAAGGT
 CCTCTCCTGCCCGGTTGGGTCTCTGGCTCTGGCCTGCTCAGACGGAAAGTACTGCTATTAGTCTAC
 CCCATCCGGAGGCCCTGCTGGCTCAGCAACCCCAAGTGCAGTGAAGCCTGCCATATATAAGGTACAATG
 TGTGGCAACTCTGCAGGTGGGTCTATGCAAGCTACAGACCCCTCTGAGTGTGGTCAAGTGCCTTAGCCTG
 GCCTGGATGCCTACCAGGCCCAACACCTAGCTGCTGGATATTATAATGGCATGGTGGTTTTCTGGA
 ACCTTCCCACTAACTCACCCCTGCAGCGGATACGGCTCTCTGATGGCTCCTTAAAGCTCTACCCCTCCA
 GTGTTTCTAGCCATGACCAGGCTGTGCGTACCTTCAATGGTGCAAGCTAACAGCCATTTCTTGTGTC
 TCTGCGGGGAGTGACCGGAAAATCAAATCTGGGACCTTCGACGCTCCTTACGAACCCATAAACTCTATCA
 AGCGCTTCTTGAGTACAGAACTGGCCTGGCTGCTCCCTACAATGGTGTCACTGTGGCTCAGGACAAGT
 CTATGCCTCTTATGGACTCTGTGGGATTCAATATATTGACGCTGGTTACCTTGGTTTCAAGGCCTACTTC
 ACTGCTCCTCGAAAAGGCACCGTTTGGAGTCTTTCAGGATCCGACTGGCTGGGACAATAGCTGCAGGAG
 ATATATCCGGGGAGCTCATTGCTGCTATATTACCAGATATGGCACTGAATCCAATAAATGTCAAGCGACC
 GTAGAGCGAAGATTTCTATATAAAGCAGATCTGATACCGTATCAGGACAGTCTGAAGGTCCAGAC
 CATTCTTCTGCTTCTGCTGCTGCGGTCCTCAACCCCTCCTAAGGCTCGAACTTCACTGAAACTGTCAACCATC
 ACTACTTGCTCTTCAAGACACAGATTTGGGTTTCAATCCATGATCTGCTCCGTAGAGAACCAATGCTGCG
 CATGCAGGAGGGAGAGGGCATTCTCAACTCTGCCTGGACAGGCTGCAGCTGGAGGCTATTATAAGGTA
 CGTTTCAGCCCAAACCTGGACTCCTATGGATGGCTGGTATCTGGGGGCGAGTCAAGGCTGGTTTCAATCC
 ATTTTGTCCGTGGACTCGCTCCCACTGGGCCACCGTATGCAGCTTGAAGCCGAGCCACTTCAATGC
 TATGTTCAACCATCCTCCCACTAGACGGCCTGGCTTCTCTCAACCCAGCCATCGCTTCTGCCCACT
 CCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202276 representing NM_001521
 Red=Cloning site Green=Tags(s)

MDTCGVGYVALGEAGPVGNMTVVDSPGQEVLNQLDVKTSSEMTSAEASVEMSLPTPLPGFEDSPDQRRLP
 PEQESLSRLEQPDLSSEMSKVS KPRASKPGRKRGRTRKGPKRPPQPNPPSAPLVPGLLDQSNPLSTPMP
 KKRGRKSKAELLLLKSKDLDRPESQSPKRPPEDFETPSGERPRRRAAQVALLYLQELAEELSTALPAPV
 SCPEGPKVSSPTKPKKIRQPAACPGGEEVDGAPRDEDFLQVEAEDVEESEGPSESSSEPEPVPRSTPR
 GSTSGKQKPHCRGMAPNGLPDHIMAPVWKCLHLTKDFREQKHSYWEFAEWIPLAWKWHLLSELEAAPYLP
 QEEKSPLFSVQREGLPEDGTLYRINRFSSITAHPERWDVSFFTGGPLWALDWCPVPEGAGASQYVALFSS
 PDMNETHPLSQLHSGPGLLQLWGLGTLQQESCNGRAHFVYGIACDNGCIWDLKFCPSGAWELPGTAPRKA
 PLLPRLGLLALACSDGKVLFLSLPHPEALLAQPPDAVKPAIYKVCVATLQVGSMTADPSECGQCLSL
 AWMPTRPHQHLAAGYYNGMVVFNWLNPTNSPLQRIRLSDGSLKLYPFQCFLAHQAVRTLQWCKANSHFLV
 SAGSDRKIKFWDLRPPYEPINSIKRFLSTELAWLLPYNGVTVAQDNCYASYGLCGIHYIDAGYLGFKAYF
 TAPRKGTVWSLGSDDLGTIAAGDISGELIAAILPDMALNPINVKRPVERRFPYKADLIPYQDSPEGPD
 HSSASSGVPNPPKARTYTETVNHYYLLFQDIDLGSFHDLLRREPMLRMQEGEGHSQCLCLDRLQLEAIHKV
 RFPNLDYSGWLVSQGQSGLVRIHFVRGLASPLGHRMQLSRAHFNAMFQPSSPTRRPGFSPTSHRLLPT
 P

TRTRPLE - GFP Tag - V

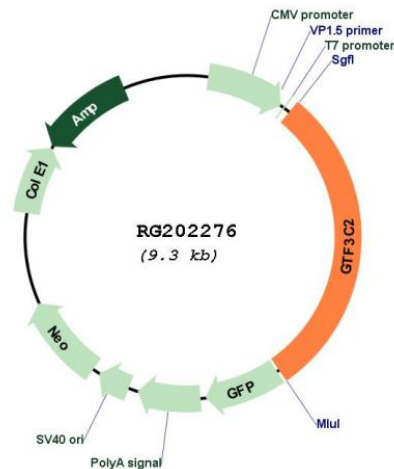
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001521

ORF Size: 2733 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_001521.2](#), [NP_001512.1](#)

RefSeq Size: 3935 bp

RefSeq ORF: 2736 bp

Locus ID: 2976

UniProt ID: [Q8WUA4](#)

Cytogenetics: 2p23.3

Domains:	WD40
Protein Families:	Transcription Factors
Gene Summary:	Required for RNA polymerase III-mediated transcription. Component of TFIIC that initiates transcription complex assembly on tRNA and is required for transcription of 5S rRNA and other stable nuclear and cytoplasmic RNAs. May play a direct role in stabilizing interactions of TFIIC2 with TFIIC1.[UniProtKB/Swiss-Prot Function]