

## Product datasheet for **RG221859**

### GTF2A1 (NM\_201595) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GTF2A1 (NM_201595) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GTF2A1
Synonyms:	TF2A1; TFIIA; TFIIA-42; TFIIAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221859 representing NM_201595 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAActAAAACTTTATGGGAAAACAACTAATGCAGTCCAGGGCAGTAGATGGATTTTCATTCAGAAG  
AGCAGCAGCTTCTACTGCAAGTTCAACAGCAGCATCAACCCAGCAGCAGCAGCATCACCACCATCACCA  
TCATCAGCAAGCTCAGCCTCAGCAGACAGTACCTCAGCAAGCGCAGACCCAGCAGGTTCTTATTCTGCA  
TCACAGCAAGCCACAGCACCACAAGTTATTGTTCCAGATTCTAAGTTGATACAGCATATGAATGCATCAA  
ACATGAGTGCTGCTGCTACAGCTGCTACCTTAGCACTCCCTGCAGGTGTGACTCCTGTTCCAGCAGATATT  
AACAAATTCAGGCCAGCTTCTTCAGGTGGTCAGAGCAGCCAATGGTGCCCAATATATCTTTCAGCCTCAG  
CAGTCAGTGGTTCTACAACAACAGGTTATACCACAAATGCAGCCTGGTGGAGTACAAGCTCCTGTTATAC  
AGCAGGTGCTGGCTCCTCTTCTGGAGGGATTTACCACAGACAGGTGTCATCATCCAGCCTCAGCAAT  
CTTATTTACAGGAAATAAGACTCAAGTTATACCTACGACAGTGGCAGCACCTACACCAGCCCAAGCACAG  
ATAACTGCAACTGGCCAGCAGCAACCGCAGGCCAGCCTGCTCAAACACAAGCTCCATTGGTCTTACAAG  
TTGATGGAActGGGATAACATCATCTGAAGAAGATGAAGATGAAGAAGAAGACTATGATGATGATGAGGA  
GGAAGACAAAGAGAAAGATGGAGCTGAAGATGGCAGGTGGAAGAAGAGCCCTCAATAGTGAAGATGAT  
GTGAGTATGAGGAAGGACAGGAACTCTTTGACACAGAAAATGTTGTTGATGCCAATATGATAAGATAC  
ACAGAAGTAAAAACAAATGGAAATTTTCATCTCAAGGATGCATTATGAATCTTAATGGAAGAGATTATAT  
ATTTTCAAAGCCATTGGAGATGCAGAATGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221859 representing NM\_201595  
 Red=Cloning site Green=Tags(s)

MELKTLWENKLMQSRAVDGFHSEEQQLLLQVQQQHQPQQQHHHHHHHQAQPQQTVPPQQAQTQQVLIPA  
 SQQATAPQVIVPDSKLIQHMASNMSAAATAATLALPAGVTPVQQILTNSGQLLQVVRAANGAQYIFQPQ  
 QSVVLQQQVIPQMPPGGVQAPVIQQVLAPLPGGI SPQTGVIIQPQQILFTGNKTQVIPTTVAAPTPAAQAQ  
 ITATGQQQPQAQPAQTQAPLVLQVDGTGDTSSSEDEDEEEDYDDDEEEDKEKDGAEDGQVEEELNSED  
 VSDEEGQELFDTEENVVVCQYDKIHRSKNKWKFHLKDGIMNLRDRIYFSKAIGDAEW

TRTRPLE - GFP Tag - V

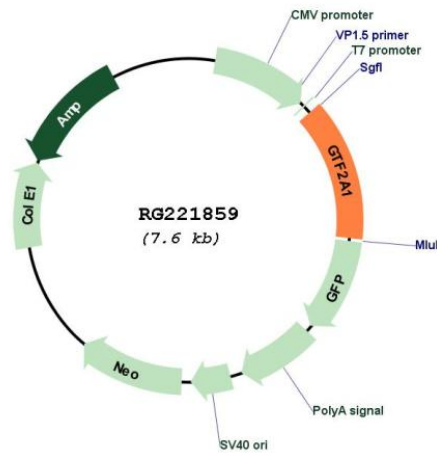
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_201595

**ORF Size:** 1011 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_201595.3</a>
<b>RefSeq Size:</b>	1358 bp
<b>RefSeq ORF:</b>	1014 bp
<b>Locus ID:</b>	2957
<b>UniProt ID:</b>	<a href="#">P52655</a>
<b>Cytogenetics:</b>	14q31.1
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Basal transcription factors
<b>Gene Summary:</b>	Accurate transcription initiation on TATA-containing class II genes involves the ordered assembly of RNA polymerase II (POLR2A; MIM 180660) and several general initiation factors (summarized by DeJong and Roeder, 1993 [PubMed 8224848]). One of these factors is TFIIA, which when purified from HeLa extracts consists of 35-, 19-, and 12-kD subunits.[supplied by OMIM, Jul 2010]