

Product datasheet for **RG224564**

GTF2A1 (NM_015859) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTF2A1 (NM_015859) 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:	>RG224564 representing NM_015859 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAACTCGGCAAATACAAACACCGTGCCTAAATTATACAGATCTGTGATTGAAGATGTCATTAATG
ATGTGAGAGACATCTTTCTGGATGATGGAGTGGATGAACAAGTACTGATGGAACTAAAACTTTATGGGA
AAACAACTAATGCAGTCCAGGGCAGTAGATGGATTTTCATTGAGAGAGCAGCAGCTTCTACTGCAAGTT
CAACAGCAGCATCAACCCAGCAGCAGCAGCATCACCACCATCACCATCATCAGCAAGCTCAGCCTCAGC
AGACAGTACCTCAGCAAGCGCAGACCCAGCAGGTTCTTATTCCTGCATCACAGCAAGCCACAGCACCACA
AGTTATTGTTCCAGATTCTAAGTTGATACAGCATATGAATGCATCAAACATGAGTGCTGCTGCTACAGCT
GCTACCTTAGCACTCCCTGCAGGTGTGACTCCTGTTCAGCAGATATTAACAAATTCAGGCCAGCTTCTTC
AGGTGGTCAGAGCAGCCAATGGTGCCCAATATATCTTTGAGCCTCAGCAGTCAAGTGGTCTACAACAACA
GGTTATACCAAAATGCAGCCTGGTGGAGTACAAGCTCCTGTTATACAGCAGGTGCTGGCTCCTCTTCT
GGAGGGATTTACCACAGACAGGTGTATCATCCAGCCTCAGCAAATCTTATTTACAGGAAATAAGACTC
AAGTTATACCTACGACAGTGGCAGCACCTACACCAGCCCAAGCACAGATAACTGCAACTGGCCAGCAGCA
ACCGCAGGCCAGCCTGCTCAAACACAAGCTCCATTGGTCTTACAAGTTGATGGAAGTGGGATACATCA
TCTGAAGAAGATGAAGATGAAGAAGAAGACTATGATGATGATGAGGAGGAAGACAAGAGAAAGATGGAG
CTGAAGATGGGCAGGTGGAAGAAGAGCCCTCAATAGTGAAGATGATGTGAGTGTGAGGAAAGGACAGGA
ACTCTTTGACACAGAAAATGTTGTTGTATGCCAATATGATAAGATACACAGAAAGTAAAAACAAATGGAAA
TTTCATCTCAAGGATGGCATTATGAATCTTAATGGAAGAGATTATATATTTTCCAAAGCCATTGGAGATG
CAGAATGG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224564 representing NM_015859
Red=Cloning site Green=Tags(s)

MANSANTNTVPKLYRSVIEDVINDVRDIFLDDGVDEQVLMELKTLWENKLMQSRVVDGFHSEEQQLLLQV
 QQQHQPPQQQHHHHHHQQAQPQQTVPQQAQTQQVLIPASQQATAPQVI VPD SKL IQHMNASNMSAAATA
 ATLALPAGVTPVQQIL TNSGQLLQVVRANGAQYIFQPQQSVVLQQQVIPQMPPGGVQAPVIQQVLAPLP
 GGI SPQTGVIIQPQQILFTGNKTQVIPTTVAAPTPAQAQITATGQQPQAQPAQTQAPLVLQVDGTGDT S
 SEEDEEEDYDDDEEEDKEKDGAEDEGQVEEELNSEDVSDDEEQELFD TENVVVCQYDKIHR SKNKWK
 FHLKDGIMNLNGRDYIFSKAIGDAEW

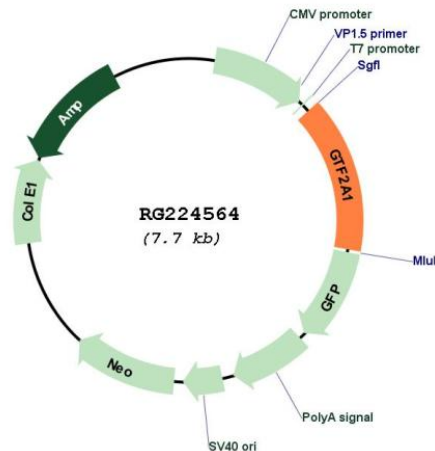
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_015859

ORF Size:	1128 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_015859.4
RefSeq Size:	6336 bp
RefSeq ORF:	1131 bp
Locus ID:	2957
UniProt ID:	P52655
Cytogenetics:	14q31.1
Domains:	TFIIA
Protein Families:	Transcription Factors
Protein Pathways:	Basal transcription factors
Gene Summary:	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]