

## Product datasheet for **RG237454**

### **GTF2A1 (NM\_001278940) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GTF2A1 (NM_001278940) 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:	>RG237454 representing NM_001278940. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGTCCAGGGCAGTAGATGGATTTTCATTTCAGAAGAGCAGCAGCTTCTACTGCAAGTTCAACAGCAG
CATCAACCCAGCAGCAGCAGCATCACCACCATCACCATCATCAGCAAGCTCAGCCTCAGCAGACAGTA
CCTCAGCAAGCGCAGACCCAGCAGGTTCTTATTCTGCATCACAGCAAGCCACAGCACCACAAGTTATT
GTTCCAGATTCTAAGTTGATACAGCATATGAATGCATCAAACATGAGTGTCTGCTACAGCTGCTACC
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ATACCACAAATGCAGCCTGGTGGAGTACAAGCTCCTGTTATACAGCAGGTGCTGGCTCCTCTTCCTGGA
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TCTGAAGAAGATGAAGATGAAGAAGAAGACTATGATGATGATGAGGAGGAAGACAAGAGAAAGATGGA
GCTGAAGATGGGCAGGTGGAAGAAGAGCCCTCAATAGTGAAGATGATGTGAGTATGAGGAAAGGACAG
GAACTCTTTGACACAGAAAATGTTGTTGTATGCCAATATGATAAGATACACAGAAGTAAAAACAAATGG
AAATTTTCATCTCAAGGATGGCATTATGAATCTTAATGGAAGAGATTATATATTTTCCAAAGCCATTGGA
GATGCAGAAATGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237454  
 Blue=ORF Red=Cloning site Green=Tag(s)

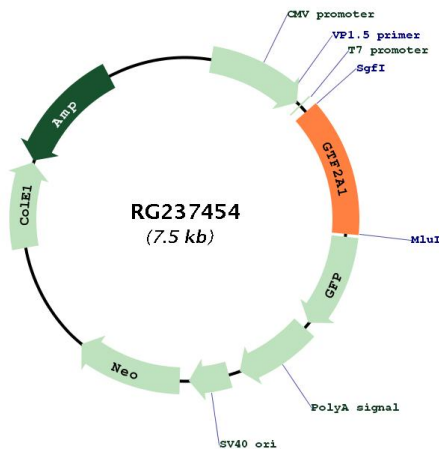
MQSRAVDGFHSEEQQLLLQVQQQHQPQQQHHHHHHHQAQPQQTVPQQAQTQQVLI PASQQATAPQVI  
 VPDSKLIQHMNASNMSAAATAATLALPAGVTPVQQIL TNSGQLLQVVRANGAQYIFQPQQSVLQQQV  
 IPQMPPGGVQAPVIQQVLAPLPGGISPQTGVIIQFQQILFTGNKTQVIPTTVAAPTQAQAQITATGQQQ  
 PQAQPAQTQAPLVLQVDGTGDT SSEDEDEEEDYDDDEEEDKEKGAEDGQVEEPLNSEDDVSDDEEQ  
 ELFDTENVVVCQYDKIHRSKNKWKFHLKDGIMNLRDRIYIFSKAIGDAEW  
**TR**TRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001278940

<b>ORF Size:</b>	978 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>RefSeq:</b>	<a href="#">NM_001278940.2</a>
<b>RefSeq Size:</b>	6403 bp
<b>RefSeq ORF:</b>	981 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>MW:</b>	36.2 kDa
<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]