

## Product datasheet for **RC237454**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GTF2A1 (NM\_001278940) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** GTF2A1  
**Synonyms:** TF2A1; TFIIA; TFIIA-42; TFIIAL  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237454 representing NM\_001278940  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCAGTCCAGGGCAGTAGATGGATTTTCATTGAGAGAGCAGCAGCTTCTACTGCAAGTTCAACAGCAGC  
ATCAACCCAGCAGCAGCAGCATCACCACCATCACCATCATCAGCAAGCTCAGCCTCAGCAGACAGTACC  
TCAGCAAGCGCAGACCCAGCAGTTCTTATTCCCTGCATCAGCAAGCCACAGCACCACAAGTTATTGTT  
CCAGATTCTAAGTTGATACAGCATATGAATGCATCAAACATGAGTGCTGCTGCTACAGCTGCTACCTTAG  
CACTCCCTGCAGGTGTGACTCCTGTTTCAGCAGATATTAACAAATTCAGGCCAGCTTCTTCAGGTGGTCAG  
AGCAGCCAATGGTGCCCAATATATCTTTTCAGCCTCAGCAGTCAGTGGTTCTACAACAACAGGTTATACCA  
CAAATGCAGCCTGGTGGAGTACAAGCTCCTGTTATACAGCAGGTGCTGGCTCCTCTTCTGGAGGGATTT  
CACCACAGACAGGTGTCATCATCCAGCCTCAGCAAATCTATTTACAGGAAATAAGACTCAAGTTATACC  
TACGACAGTGGCAGCACCTACACCAGCCCAAGCACAGATAACTGCAACTGGCCAGCAGCAACCGCAGGCC  
CAGCCTGCTCAAACACAAGCTCCATTGGTCTTACAAGTTGATGGAAGTGGGATACATCATCTGAAGAAG  
ATGAAGATGAAGAAGAAGACTATGATGATGATGAGGAGGAAGACAAAGAGAAAGATGGAGCTGAAGATGG  
GCAGGTGAAGAAGAGCCCTCAATAGTGAAGATGATGTGAGTGATGAGGAAGGACAGGAACTCTTTGAC  
ACAGAAAATGTTGTTGTATGCCAATATGATAAGATACACAGAAGTAAAAACAAATGGAAATTTTCATCTCA  
AGGATGGCATTATGAATCTTAATGGAAGAGATTATATATTTTCCAAGCCATTGGAGATGCAGAATGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237454 representing NM\_001278940  
Red=Cloning site Green=Tags(s)

MQSRVAVDGFHSEEQQLLLQVQQQHQPQQQHHHHHHHQAQPQQTPVQQAQTTQVLIIPASQQATAPQVIV  
 PDSKLIQHMASNMSAAATAATLALPAGVTPVQQILTNSGQLLQVVRAANGAQYIFQPQQSVVLQQQVIP  
 QMQPGGVQAPVIQQVLAFLPGGISPQTGVIIQPQQILFTGNKTQVIPTTVAAPTPAQAITATGQQQPQA  
 QPAQTQAPLVLQVDGTGDTSSSEDEDEEEDYDDDEEDKEKDGAEQVVEEPLNSEDVVSDEEGQELFD  
 TENVVVCQYDKIHRSKNKWKFHLKDGIMNLRDRIYFKAIGDAEW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

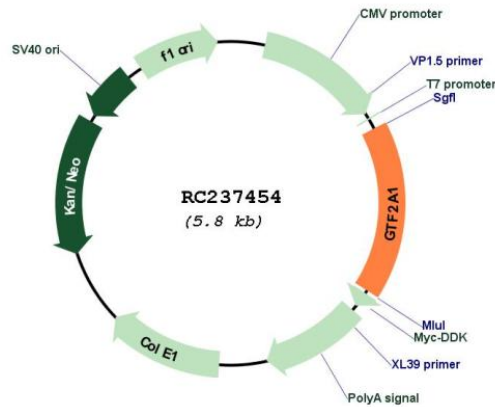
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001278940

**ORF Size:** 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>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_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]