

Product datasheet for RC221859

GTF2A1 (NM_201595) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTF2A1 (NM_201595) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GTF2A1
Synonyms:	TF2A1; TFIIA; TFIIA-42; TFIIAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221859 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGCGAACTCGGCAAATACAAACACCGTGCCTAAATTATACAGATCTGTGATTGAAGATGTCATTAATG
ATGTGAGAGACATCTTTCTGGATGATGGAGTGGATGAACAAGTACTGATGGAACAAAACTTTATGGGA
AAACAACTAATGCAGTCCAGGGCAGTAGATGGATTTTCATTGAGAGAGCAGCAGCTTCTACTGCAAGTT
CAACAGCAGCATCAACCCAGCAGCAGCAGCATCACCACCATCACCATCATCAGCAAGCTCAGCCTCAGC
AGACAGTACCTCAGCAAGCGCAGACCCAGCAGGTTCTTATTCCTGCATCACAGCAAGCCACAGCACCACA
AGTTATTGTTCCAGATTCTAAGTTGATACAGCATATGAATGCATCAAACATGAGTGCTGCTGCTACAGCT
GCTACCTTAGCACTCCCTGCAGGTGTGACTCCTGTTTCAGCAGATATTAACAAATTCAGGCCAGCTTCTTC
AGGTGGTCAGAGCAGCCAATGGTGCCCAATATATCTTTGAGCCTCAGCAGTCAAGTGGTCTACAACAACA
GGTTATACCAAAATGCAGCCTGGTGGAGTACAAGCTCCTGTTATACAGCAGGTGCTGGCTCCTCTTCTCT
GGAGGGATTTACCACAGACAGGTGTATCATCCAGCCTCAGCAAATCTTATTTACAGGAAATAAGACTC
AAGTTATACCTACGACAGTGGCAGCACCTACACCAGCCCAAGCACAGATAACTGCAACTGGCCAGCAGCA
ACCGCAGGCCAGCCTGCTCAAACACAAGCTCCATTGGTCTTACAAGTTGATGGAAGTGGGATACATCA
TCTGAAGAAGATGAAGATGAAGAAGAAGACTATGATGATGATGAGGAGGAAGACAAGAGAAAGATGGAG
CTGAAGATGGGCAGGTGGAAGAAGAGCCCTCAATAGTGAAGATGATGTGAGTGTGAGGAAAGGACAGGA
ACTCTTTGACACAGAAAATGTTGTTGTATGCCAATATGATAAGATACACAGAAAGTAAAAACAAATGGAAA
TTTCATCTCAAGGATGGCATTATGAATCTTAATGGAAGAGATTATATATTTTCCAAAGCCATTGGAGATG
CAGAATGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221859 protein sequence
 Red=Cloning site Green=Tags(s)

MANSANTNTVPKLYRSVIEDVINDVRDIFLDDGVDEQVLMELKTLWENKLMQSRAVDGFHSEEQQLLQV
 QQQHQPQQQHHHHHHQQAQPQQTVPQQAQTQQVLIPASQATAPQVI VPSKLIQH MNASNMSAAATA
 ATLALPAGVTPVQQIL TNSGQLLQVVRAANGAQYIFQPQQSVVLQQQVIPQMPPGGVQAPVIQQVLAPLP
 GGI SPQTGVIIQPQQILFTGNKTQVIPTTVAAPTQAQAQITATGQQQPQAQPAQTQAPLVLQVDGTGDT S
 SEEDEEEDYDDDEEDKEKDGAEDEGQVEEELNSEDDVSDEEGQELFD TENVVVCQYDKIHRSKNKWK
 FHLKDGIMNLNGRDYIFSKAIGDAEW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6730_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201595

ORF Size: 1131 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_201595.1](#), [NM_201595.2](#), [NP_963889.1](#)

RefSeq Size: 5956 bp

RefSeq ORF: 1014 bp

Locus ID: 2957

UniProt ID: [P52655](#)

Cytogenetics: 14q31.1

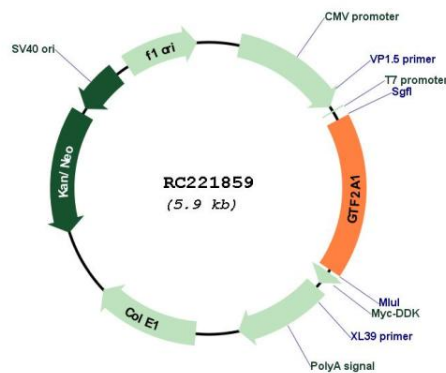
Protein Families: Transcription Factors

Protein Pathways: Basal transcription factors

MW: 41.5 kDa

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]

Product images:



Circular map for RC221859