

Product datasheet for RC224564

GTF2A1 (NM_015859) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTF2A1 (NM_015859) 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:	>RC224564 representing NM_015859 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAACTCGGCAAATACAAACACCGTGCCTAAATTATACAGATCTGTGATTGAAGATGTCATTAATG
ATGTGAGAGACATCTTTCTGGATGATGGAGTGGATGAACAAGTACTGATGGAACAAAACTTTATGGGA
AAACAACTAATGCAGTCCAGGGCAGTAGATGGATTTTCATTGAGAGAGCAGCAGCTTCTACTGCAAGTT
CAACAGCAGCATCAACCCAGCAGCAGCAGCATCACCACCATCACCATCATCAGCAAGCTCAGCCTCAGC
AGACAGTACCTCAGCAAGCGCAGACCCAGCAGGTTCTTATTCCTGCATCACAGCAAGCCACAGCACCACA
AGTTATTGTTCCAGATTCTAAGTTGATACAGCATATGAATGCATCAAACATGAGTGCTGCTGCTACAGCT
GCTACCTTAGCACTCCCTGCAGGTGTGACTCCTGTTCAGCAGATATTAACAAATTCAGGCCAGCTTCTTC
AGGTGGTCAGAGCAGCCAATGGTGCCCAATATATCTTTCAGCCTCAGCAGTCAAGTGGTCTACAACAACA
GGTTATACCACAAATGCAGCCTGGTGGAGTACAAGCTCCTGTTATACAGCAGGTGCTGGCTCCTCTTCT
GGAGGGATTTACCACAGACAGGTGTATCATCCAGCCTCAGCAAATCTTATTTACAGGAAATAAGACTC
AAGTTATACCTACGACAGTGGCAGCACCTACACCAGCCCAAGCACAGATAACTGCAACTGGCCAGCAGCA
ACCGCAGGCCAGCCTGCTCAAACACAAGCTCCATTGGTCTTACAAGTTGATGGAAGTGGGATACATCA
TCTGAAGAAGATGAAGATGAAGAAGAAGACTATGATGATGATGAGGAGGAAGACAAGAGAAAGATGGAG
CTGAAGATGGGCAGGTGGAAGAAGAGCCCTCAATAGTGAAGATGATGTGAGTGTGAGGAAGGACAGGA
ACTCTTTGACACAGAAAATGTTGTTGTATGCCAATATGATAAGATACACAGAAAGTAAAAACAAATGGAAA
TTTCATCTCAAGGATGGCATTATGAATCTTAATGGAAGAGATTATATATTTTCCAAAGCCATTGGAGATG
CAGAATGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224564 representing NM_015859
Red=Cloning site Green=Tags(s)

MANSANTNTVPKLYRSVIEDVINDVRDIFLDDGVDEQVLMELKTLWENKLMQSRVAVDGFHSEEQQLLQV
 QQQHQPQQQHHHHHHHQAQPQQTVPQQAQTQQLIPASQQATAPOQVI VPSKLIQHMNASNMSAAATA
 ATLALPAGVTPVQQIL TNSGQLLQVVRANGAQYIFQPQQSVVLQQQVIPQMPPGGVQAPVIQQVLAPLP
 GGI SPQTGVIIQPQQILFTGNKTQVIPTTVAAPTQAQAQITATGQQQPQAQPAQTQAPLVLQVDGTGDT S
 SEEDEDEEDYDDDEEDKEKGAEDGQVEEELNSEDDVSDEEGQELFDTENVVVCQYDKIHRSKNKWK
 FHLKDGIMNLNGRDYIFSKAIGDAEW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:

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

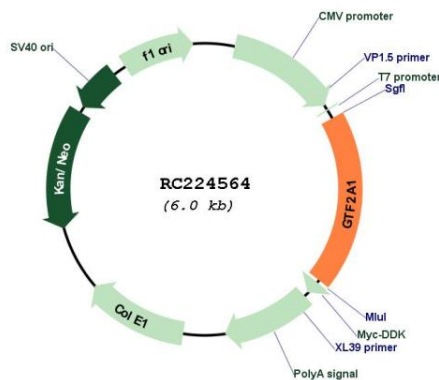
Protein Families: Transcription Factors

Protein Pathways: Basal transcription factors

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 RC224564