

## Product datasheet for **SC335348**

### GTF2A1 (NM\_001278940) Human Untagged Clone

#### Product data:

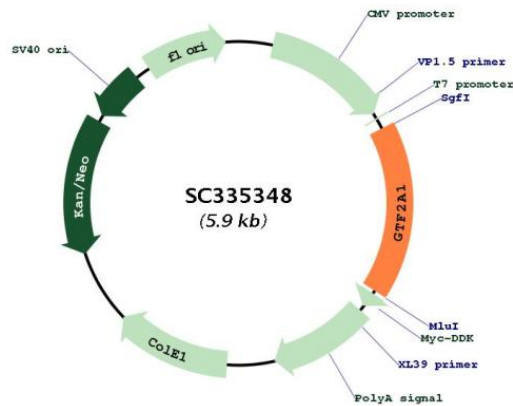
Product Type:	Expression Plasmids
Product Name:	GTF2A1 (NM_001278940) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTF2A1
Synonyms:	TF2A1; TFIIA; TFIIA-42; TFIIAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335348 representing NM_001278940. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGTCCAGGGCAGTAGATGGATTTTCATTTCAGAAGAGCAGCAGCTTCTACTGCAAGTTCAACAGCAG
CATCAACCCAGCAGCAGCAGCATCACCACCATCACCATCATCAGCAAGCTCAGCCTCAGCAGACAGTA
CCTCAGCAAGCGCAGACCCAGCAGGTTCTTATTCTGCATCACAGCAAGCCACAGCACCACAAGTTATT
GTTCCAGATTCTAAGTTGATACAGCATATGAATGCATCAAACATGAGTGTCTGCTACAGCTGCTACC
TTAGCACTCCCTGCAGGTGTGACTCCTGTTTCAGCAGATTAACAAATTCAGGCCAGCTTCTTCAGGTG
GTCAGAGCAGCCAATGGTGCCCAATATATCTTTTCAGCCTCAGCAGTCAGTGGTTCTACAACAACAGGTT
ATACCACAAATGCAGCCTGGTGGAGTACAAGCTCCTGTTATACAGCAGGTGCTGGCTCCTCTTCCTGGA
GGGATTTCAACACAGACAGGTGTCATCATCCAGCCTCAGCAAATCTTATTTACAGGAAATAGACTCAA
GTTATACCTACGACAGTGGCAGCACCTACACCAGCCCAAGCACAGATAAAGTCAACTGGCCAGCAGCAA
CCGAGGCCAGCCTGCTCAAACACAAGCTCCATTGGTCTTACAAGTTGATGGAAGTGGGATACATCA
TCTGAAGAAGATGAAGATGAAGAAGAAGACTATGATGATGATGAGGAGGAAGACAAGAGAAAGATGGA
GCTGAAGATGGCAGGTGGAAGAAGAGCCCTCAATAGTGAAGATGATGTGAGTATGAGGAAAGGACAG
GAACTCTTTGACACAGAAAATGTTGTTGTATGCCAATATGATAAGATACACAGAAGTAAAAACAAATGG
AAATTTTCATCTCAAGGATGGCATTATGAATCTTAATGGAAGAGATTATATATTTTCCAAAGCCATTGGA
GATGCAGAATGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001278940

**Insert Size:** 981 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001278940.1](#)

**RefSeq Size:** 6403 bp

**RefSeq ORF:** 981 bp

**Locus ID:** 2957

**UniProt ID:** [P52655](#)

**Cytogenetics:** 14q31.1

**Protein Families:** Transcription Factors

**Protein Pathways:** Basal transcription factors

**MW:** 35.8 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]

Transcript Variant: This variant (3) includes an alternate exon and uses a downstream start codon compared to variant 1. It encodes isoform 3 which has a shorter N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.