

Product datasheet for **RG231236**

ALF (GTF2A1L) (NM_001193487) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALF (GTF2A1L) (NM_001193487) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GTF2A1L
Synonyms:	ALF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231236 representing NM_001193487
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTGCCTCAACCCGGTGTCTGGGAAACCAAGTTTTGCAGTCTAAAGCAACAGAAGACTTCTTCA
 GAAATAGCATCCAATCACCTCTGTTACTCTTCAGTTGCCGCACAGCTTGACCAAAACATTGCAATCGTC
 AACAGCATCATTAGTTATTCCTGCTGGTAGAACTCTTCCAAGTTTTACCACAGCAGAAGCTGGCACTTCA
 AACTCCAGTGCAAACCTTACTTTTCTGGTTATCCCATTCATGTACCAGCAGGTGTGACTACAGACTG
 TATCTGGTCACCTTTATAAAGTCAATGTACCAATTATGGTGACAGAGACTTCTGGAAGAGCAGGTATTCT
 TCAGCATCCAATTCAGCAAGTATTTCAACAGCTTGCCAGCCTTCAGTAATACAACTAGTGTCCACAA
 TTGAATCCATGGTCTCTCAAGCAACTACTGAAAAATCACAGAGAATTGAAACCGTGCTACAGCAACCCG
 CAATTCTACCTTCTGGCCAGTAGATAGGAAACACTTAGAAAATGCCACCAGTGATATACTTGTATCTCC
 TGGAAATGAGCATAAAATCGTGCCTGAAGCTTTGTTGTGTCATCAGGAAAGTTCTACTATATCAGTCTT
 CCAGGTGTTGATTTTCTCCACAGGTCTCTCAAACAAATTCCTAATGTGGAGTCAGTGCTCAGTGGTTCAG
 CTAGCATGGCTCAAAATCTGCATGATGAGTCCCTCTCCACAAGCCCTCATGGGGCTCTCCACCAGCACGT
 GACTGATATTCAGCTTCATATTCTTAAAAATAGGATGTATGGATGTATTCTGTAAGCAACCAAGAAAAT
 ATAGAGGAACCCAGCAACATACCTGTATCAGAGAAGGATTCTAATTCAGGTGGATTTAAGCATTCCGGG
 TTAAGTATGATGATATTGGTGAATAATTCAAGTAGATGGAAGCGGTGATACATCTTCCAATGAAGAAAAT
 AGGAAGTACAAGAGATGCAGATGAGAATGAATTTCTAGGGAATATTGACGGGGGAGATCTGAAGGTACCT
 GAAGAAGAAGCTGACAGTATTTCAAATGAGGATTCAGCCACAAACAGTAGTGATAATGAAGACCCCTCAAG
 TAAACATTGTAGAAGAGGACCCTTAAATCTGGAGATGATGTTAGTGAACAGGATGTGCCAGACCTGTT
 TGACACGGATAATGTTATTGTCTGTCTGATGATAAGATTTCATCGAAGCAAGAACAATGGAAAATCTAT
 TTGAAAGATGGTGTATGTGTTTTGGAGGAGAGACTATGTATTTGCAAAAGCCATTGGTATGCAGAGT
 GG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG231236 representing NM_001193487
 Red=Cloning site Green=Tags(s)

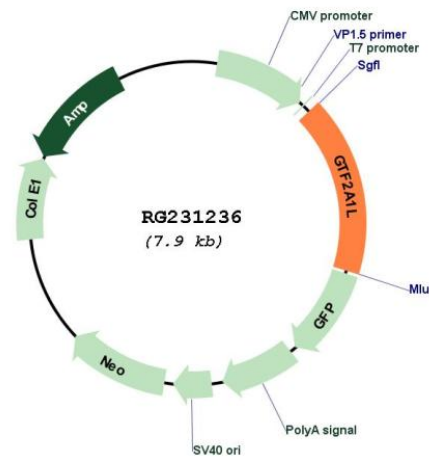
MACLNPVLWETKVLQSKATEDFFRNSIQSPLFTLQLPHSLHQTLQSSTASLVIPAGRTLPSFTTAEELGTS
 NSSANFTFPGYPIHVPAGVTLQTVSGHL YKVNVPIMVETESGRAGILQHPIQQVFQQLGQPSVIQTSVPQ
 LNPWSLQATTEKSQRIETVLQQPAILPSGPVDRKHLENATSDILVSPGNEHKIVPEALLCHQESSHYISL
 PGVVFSPQVSQTNNSVESVLSGSASMAQNLHDESLSTSPHGALHQHVTDIQLHILKNRMYGCDVSKQPRN
 IEEPSNIPVSEKDSNSQVDLSIRVTDDDIGEIIQVDGSGDTSNNEEIGSTRDADENEFLGNIDGGDLKVP
 EEEADSI SNEDSATNSSDNEDPQVNI VEEDPLNSGDDVSEQDVPDLFDTDNVIVCQYDKIHRSKNKWKFY
 LKDGVMCFGGRDYVFAKAIGDAEW

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001193487

ORF Size: 1332 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:	<ol style="list-style-type: none">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_001193487.2
RefSeq Size:	1590 bp
RefSeq ORF:	1335 bp
Locus ID:	11036
UniProt ID:	Q9UNN4
Cytogenetics:	2p16.3
Protein Families:	Transcription Factors
Protein Pathways:	Basal transcription factors
Gene Summary:	<p>The assembly and stability of the RNA polymerase II transcription pre-initiation complex on a eukaryotic core promoter involve the effects of transcription factor IIA (TFIIA) on the interaction between TATA-binding protein (TBP) and DNA. This gene encodes a germ cell-specific counterpart of the large (alpha/beta) subunit of general transcription factor TFIIA that is able to stabilize the binding of TBP to DNA and may be uniquely important to testis biology. Alternative splicing for this locus has been observed and two variants, encoding distinct isoforms, have been identified. Co-transcription of this gene and the neighboring upstream gene generates a rare transcript (SALF), which encodes a fusion protein comprised of sequence sharing identity with each individual gene product. [provided by RefSeq, Mar 2014]</p>