OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC231236

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:	Myc-DDK
Symbol:	ALF
Synonyms:	ALF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC231236 representing NM_001193487
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTGCCTCAACCCGGTGCTCTGGGAAACCAAGGTTTTGCAGTCTAAAGCAACAGAAGACTTCTTCA
GAAATAGCATCCAATCACCTCTGTTTACTCTTCAGTTGCCGCACAGCTTGCACCAAACATTGCAATCGTC
AACAGCATCATTAGTTATTCCTGCTGGTAGAACTCTTCCAAGTTTTACCACAGCAGAACTGGGCACTTCA
AACTCCAGTGCAAACTTTACTTTTCCTGGTTATCCCATTCATGTACCAGCAGGTGTGACACTACAGACTG
TATCTGGTCACCTTTATAAAGTCAATGTACCAATTATGGTGACAGAGACTTCTGGAAGAGCAGGTATTCT
TCAGCATCCAATTCAGCAAGTATTTCAACAGCTTGGCCAGCCTTCAGTAATACAAACTAGTGTTCCACAA
TTGAATCCATGGTCTCTTCAAGCAACTACTGAAAAATCACAGAGAATTGAAACCGTGCTACAGCAACCCG
CAATTCTACCTTCTGGGCCAGTAGATAGGAAACACTTAGAAAATGCCACCAGTGATATACTTGTATCTCC
TGGAAATGAGCATAAAATCGTGCCTGAAGCTTTGTTGTGTCATCAGGAAAGTTCTCACTATATCAGTCTT
CCAGGTGTTGTATTTTCTCCACAGGTCTCTCAAACAAATTCTAATGTGGAGTCAGTGCTCAGTGGTTCAG
CTAGCATGGCTCAAAATCTGCATGATGAGTCCCTCTCCACAAGCCCTCATGGGGCTCTCCACCAGCACGT
GACTGATATTCAGCTTCATATTCTTAAAAATAGGATGTATGGATGTGATTCTGTAAAGCAACCAAGAAAT
ATAGAGGAACCCAGCAACATACCTGTATCAGAGAAGGATTCTAATTCTCAGGTGGATTTAAGCATTCGGG
TTACTGATGATGATATTGGTGAAATAATTCAAGTAGATGGAAGCGGTGATACATCTTCCAATGAAGAAAT
AGGAAGTACAAGAGATGCAGATGAGAATGAATTTCTAGGGAATATTGACGGGGGAGATCTGAAGGTACCT
GAAGAAGAAGCTGACAGTATTTCAAATGAGGATTCAGCCACAAACAGTAGTGATAATGAAGACCCTCAAG
TAAACATTGTAGAAGAGGACCCTTTAAATTCTGGAGATGATGTTAGTGAACAGGATGTGCCAGACCTGTT
TGACACGGATAATGTTATTGTCTGTCAGTATGATAAGATTCATCGAAGCAAGAACAAATGGAAATTCTAT
TTGAAAGATGGTGTTATGTGTTTTGGAGGGAGAGACTATGTATTTGCAAAAGCCATTGGTGATGCAGAGT
GG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231236 representing NM_001193487
Red=Cloning site Green=Tags(s)

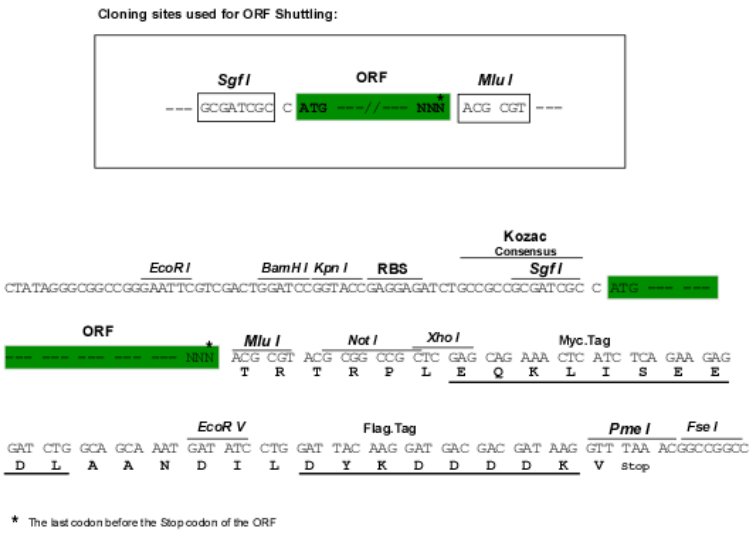
MACLNPVLWETKVLQSKATEDFFRNSIQSPLFTLQLPHSLHQTLQSSTASLVIPAGRTLPSFTTAELGTS
NSSANFTFPGYPIHVPAGVTLQTVSGHLYKVNVPIMVTETSGRAGILQHPIQQVFQQLGQPSVIQTSVPQ
LNPWSLQATTEKSQRIETVLQQPAILPSGPVDRKHLENATSDILVSPGNEHKIVPEALLCHQESSHYISL
PGVVFSPQVSQTNSNVESVLSGSASMAQNLHDESLSTSPHGALHQHVTDIQLHILKNRMYGCDSVKQPRN
IEEPSNIPVSEKDSNSQVDLSIRVTDDDIGEIIQVDGSGDTSSNEEIGSTRDADENEFLGNIDGGDLKVP
EEEADSISNEDSATNSSDNEDPQVNIVEEDPLNSGDDVSEQDVPDLFDTDNVIVCQYDKIHRSKNKWKFY
LKDGVMCFGGRDYVFAKAIGDAEW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8060_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:
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 ORF: 1335 bp

Locus ID: 11036

UniProt ID: Q9UNN4

Cytogenetics: 2p16.3

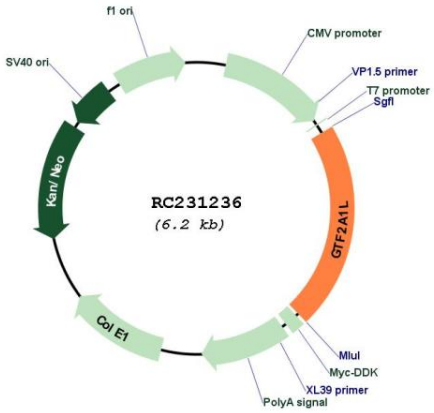
Protein Families: Transcription Factors

Protein Pathways: Basal transcription factors

MW: 49 kDa

Gene Summary: 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]

Product images:



Circular map for RC231236