

Product datasheet for **RG205264**

ALF (GTF2A1L) (NM_006872) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALF (GTF2A1L) (NM_006872) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALF
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:

>RG205264 representing NM_006872
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTGCCTCAACCCGGTGCCTAAACTCTACAGATCTGTAATTGAAGATGTAATTGAAGGAGTTCGGA
 ATCTATTTGCTGAAGAAGGTATAGAGGAACAAGTTTTAAAGACTTGAAGCAGCTCTGGAAACCAAGGT
 TTTGCAGTCTAAAGCAACAGAAGACTTCTTCAGAAATAGCATCCAATCACCTCTGTTTACTCTTCAGTTG
 CCGCACAGCTTGACCAAAACATTGCAATCGTCAACAGCATCATTAGTTATTCCTGCTGGTAGAACTTTC
 CAAGTTTTACCACAGCAGAAGCTGGGCACCTCAAACCTCCAGTGCAAACCTTACTTTTCTGGTTATCCCAT
 TCATGTACCAGCAGGTGTGACACTACAGACTGTATCTGGTCACCTTTATAAAGTCAATGTACCAATTATG
 GTGACAGAGACTTCTGGAAGAGCAGGTATTCTTCAGCATCCAATTCAGCAAGTATTTCAACAGCTTGCC
 AGCCTTCAGTAATAAACTAGTGTCCACAATTGAATCCATGGTCTCTCAAGCAACTACTGAAAAATC
 ACAGAGAATTGAAACCGTCTACAGCAACCCGCAATTCTACCTTCTGGCCAGTAGATAGGAAACACTTA
 GAAAAATGCCACCAAGTGATATACTTGTATCTCTGGAAATGAGCATAAAATCGTGCCTGAAGCTTTGTTGT
 GTCATCAGGAAAGTTCTCACTATATCAGTCTTCCAGGTGTTGATTTTTCTCCACAGGTCTCTCAACAAA
 TTCTAATGTGGAGTCAGTGTCTAGTGGTTCAGCTAGCATGGCTCAAAATCTGCATGATGAGTCCCTCTCC
 ACAAGCCCTCATGGGGCTCTCCACCAGCAGTGACTGATATTCAGCTTCATTTCTAAAAATAGGATGT
 ATGGATGTGATTCTGTAAGCAACCAAGAAATATAGAGGAACCCAGCAACATACCTGTATCAGAGAAGGA
 TTCTAATTTCTCAGGTGGATTTAAGCATTCCGGTACTGATGATGATATTGGTGAATAATTCAAGTAGAT
 GGAAGCGGTGATACATCTTCCAATGAAGAAATAGGAAGTACAAGAGATGCAGATGAGAATGAATTTCTAG
 GGAATATTGACGGGGAGATCTGAAGGTACCTGAAGAAGAAGCTGACAGTATTTCAAATGAGGATTGAGC
 CACAAACAGTAGTGATAATGAAGACCTCAAGTAAACATTGTAGAAGAGGACCCTTAAATTTCTGGAGAT
 GATGTTAGTGAACAGGATGTGCCAGACCTGTTTACACGGATAATGTTATTGTCTGTCAGTATGATAAGA
 TTCATCGAAGCAAGAACAATGGAATTTCTATTTGAAAGATGGTGTATGTGTTTGGAGGGAGAGACTA
 TGTATTTGCAAAAGCCATTGGTGATGCAGAGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205264 representing NM_006872
 Red=Cloning site Green=Tags(s)

MACLNPVKLYRSVIEDVIEGVRNLF AE E G I E E Q V L K D L K Q L W E T K V L Q S K A T E D F F R N S I Q S P L F T L Q L
 P H S L H Q T L Q S S T A S L V I P A G R T L P S F T T A E L G T S N S S A N F T F P G Y P I H V P A G V T L Q T V S G H L Y K V N V P I M
 V T E T S G R A G I L Q H P I Q Q V F Q L G Q P S V I Q T S V P Q L N P W S L Q A T T E K S Q R I E T V L Q Q P A I L P S G P V D R K H L
 E N A T S D I L V S P G N E H K I V P E A L L C H Q E S S H Y I S L P G V V F S P Q V S Q T N S N V E S V L S G S A S M A Q N L H D E S L S
 T S P H G A L H Q H V T D I Q L H I L K N R M Y G C D S V K Q P R N I E E P S N I P V S E K D S N S Q V D L S I R V T D D D I G E I I Q V D
 G S G D T S S N E E I G S T R D A D E N E F L G N I D G G D L K V P E E E A D S I S N E D S A T N S D N E D P Q V N I V E E D P L N S G D
 D V S E Q D V P D L F D T D N V I C Q Y D K I H R S K N K W K F Y L K D G V M C F G G R D Y V F A K A I G D A E W

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_006872

ORF Size: 1434 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_006872.5](#)

RefSeq Size: 1668 bp

RefSeq ORF: 1437 bp

Locus ID: 11036

UniProt ID: [Q9UNN4](#)

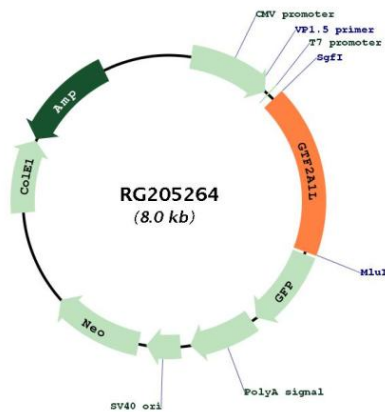
Cytogenetics: 2p16.3

Protein Families: Transcription Factors

Protein Pathways: Basal transcription factors

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 RG205264