

## Product datasheet for **RG221621**

### LAF4 (AFF3) (NM\_002285) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LAF4 (AFF3) (NM_002285) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AFF3
Synonyms:	KINS; LAF4; MLLT2-like
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221621 representing NM_002285 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAGCTTCGACTTAGCCCTGCTCCAGGAATGGGACCTCGAGTCACTGTGTGTCTATGAACCAGATA  
GAAATGCATTACGGAGGAAAGAACGAGAAAGAAGAAATCAAGAACTCAACAGGATGATGGCAGCTTTAA  
TTCTAGTTACTCTCTCTCAGTGAGCCCTACAAGACTACAAGGGGGATGAACTCTCAACCGGATCCAG  
AACACTTAGGCAATTATGATGAAATGAAAGACTTTTTAACTGATAGATCCAATCAGAGTCATCTCGTTG  
GAGTTCCAAACCTGGGTTCTCAGACTCCTGTGAACAAGATCGATGAACATTTTGTTCAGATCAAG  
AGCCCAGAACCAGCCCTCGTCTATCTGTAGCACTACAACCTCCACACCAGCAGCTGTCCCGTGCAGCAG  
AGTAAGAGAGGCACTATGGGCTGGCAGAAGGCTGGGCACCCACCTCTGACGGCCAAACAGAGAGCAACAC  
AACAGGGCTCTCTCAGGACCTTGCTTGGAGATGGTGTGGCAGACAGCAGCCTCGGGCCAAACAAGTGTG  
CAATGTGGAGGTGGGCTTCAGACCCAGGAGAGGCCACCTGCCATGGCGGCCAAGCACAGCAGCAGCGGA  
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CAAATTTCCATTTCCAAATAAGGACTCTCAGCTTGATCCTCTGGACACAATAATCCAAAGAAAGGTGAT  
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TCAGAGCAATCAGTACTACAACCCGGTGAAGAGGACGTCCAGGACTGTGGGAAAGTCCCCGACGTTT  
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CATCCTGCACAGTACGACTACTGGGAGATGGCCGACAACCTGGCCAAGGAAAACCGAGAATTCTTCAAC  
GACCTGGATCTGCTCATGGGGCCGGTACCCTGCACAGCAGCATGGAGCACCTGGTCCAGTACTCCAAC  
AGGGCCTGCACTGGCTGCGGAACAGCGCCACCTGTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221621 representing NM\_002285  
 Red=Cloning site Green=Tags(s)

MDSFDLALLQEWDLSELCVYEPDRNALRRKERERRNQETQDDGTFNSSYSLFSEPYKTNKGDELSNRIQ  
 NTLGNYDEMKDFLTDRSNQSHLVGVPKPGVPQTPVNKIDEHFVADSRAQNQPSSICSTTTSTPAAVPVQQ  
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 SPNPSPASSVGSQGLSNASALSPSTIVSIPQRIHQMAANHVSIINSILHSYDYWEMADNLAKENREFFN  
 DLDLLMGPVTLHSSMEHLVQYSQQGLHWRNSAHL S

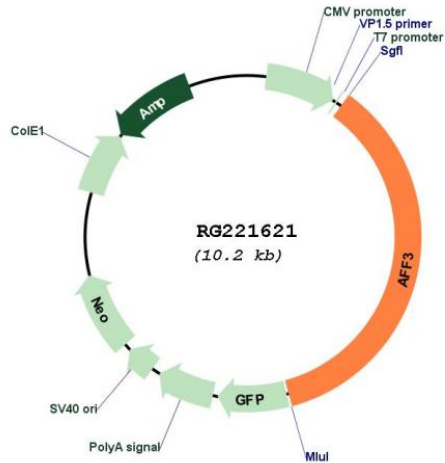
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_002285

**ORF Size:** 3678 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\\_002285.3](#)

**RefSeq Size:** 8153 bp

**RefSeq ORF:** 3681 bp

**Locus ID:** 3899

**UniProt ID:** [P51826](#)

**Cytogenetics:** 2q11.2

**Domains:** AF-4

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a tissue-restricted nuclear transcriptional activator that is preferentially expressed in lymphoid tissue. Isolation of this protein initially defined a highly conserved LAF4/MLLT2 gene family of nuclear transcription factors that may function in lymphoid development and oncogenesis. In some ALL patients, this gene has been found fused to the gene for MLL. Multiple alternatively spliced transcript variants that encode different proteins have been found for this gene. [provided by RefSeq, Jul 2008]