

Product datasheet for RC213269

LAF4 (AFF3) (NM_001025108) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAF4 (AFF3) (NM_001025108) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LAF4
Synonyms:	KINS; LAF4; MLLT2-like
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213269 representing NM_001025108 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGGACAGCTTCGACTTAGCCCTGCTCCAGGAATGGGACCTCGAGTCACTGTGGGGTGAAGACATCTTAA
ACCAGAGGAATGACTCTCTAGTTGTGGAATTTTCAGTCATCAGCCAGCAGATGCAGGAGTGTCTATGAACC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC213269 representing NM_001025108
 Red=Cloning site Green=Tags(s)

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 FNSSYSLSFSEPYKTNKGDEL SNRIQNTLGN YDEM KDFL TDRSNQSHLVGVKPGVPQTPV NKIDEHFVAD
 SRAQNQPS S I C S T T T S T P A A V P V Q Q S K R G T M G W Q K A G H P P S D G Q Q R A T Q Q G S L R T L L G D G V G R Q Q P R A K Q
 V C N V E V G L Q T Q E R P P A M A A K H S S S G H C V Q N F P P S L A S K P S L V Q Q K P T A Y V R P M D G Q D Q A P D E S P K L K S S S
 E T S V H C T S Y R G V P A S K P E P A R A K A K L S K F S I P K Q G E E S R S G E T N S C V E E I I R E M T W L P P L S A I Q A P G K V E
 P T K F P F P N K D S Q L V S S G H N N P K K G D A E P E S P D N G T S N T S M L E D D L K L S S D E E E N E Q Q A A Q R T A L R A L S D S
 A V V Q Q P N C R T S V P S S K G S S S S S S G S S S S S D S E S S S S G S D S E T E S S S S E S E G S K P P H F S S P E A P A S S N K
 W Q L D K W L N K V N P H K P P I L I Q N E S H G S E S N Q Y Y N P V K E D V Q D C G K V P D V C Q P S L R E K E I K S T C K E E Q R P R T
 A N K A P G S K G V K Q K S P P A A V A V A S A A P P P A V P C A P A E N A P A P A R R S A G K K P T R R T E R T S A G D G A N C H R P
 E E P A A A D A L G T S V V V P P E P T K T R P C G N N R A S H R K E L R S S V T C E K R R T R G L S R I V P K S K E F I E T E S S S S S S
 S S D S D L E S E Q E E Y P L S K A Q T V A A S A S S G N D Q R L K E A A A N G G S G P R A P V G S I N A R T T S D I A K E L E E Q F Y T L
 V P F G R N E L L S P L K D S D E I R S L W V K I D L T L L S R I P E H L P Q E P G V L S A P A T K D S E S A P P S H T S D T P A E K A L P
 K S K R K R C D N E D D Y R E I K K S Q G E K D S S S R L A T S T S N T L S A N H C M N I N S V A I P I N K N E K M L R S P I S P L S D
 A S K H K Y T S E D L T S S S R P N G S L F T S A S S S K K P A D S Q L Q P H G D L T K A A H N S E N I P L H K S R P Q T K P W S P
 G S N G H R D C K R Q K L V F D D M P R S A D Y F M Q E A K R M K H K A D A M V E K F G K A L N Y A E A A L S F I E C G N A M E Q G P M E S
 K S P Y T M Y S E T V E L I R Y A M R L K T H S G P N A T P E D K Q L A A L C Y R C L A L L Y W R M F R L K R D H A V K Y S K A L I D Y F K
 N S S K A A Q A P S P W G A S G K S T G T P S P M S P N P S P A S S V G S Q G S L S N A S A L S P S T I V S I P Q R I H Q M A A N H V S I T
 N S I L H S Y D Y W E M A D N L A K E N R E F F N D L D L L M G P V T L H S S M E H L V Q Y S Q Q G L H W L R N S A H L S

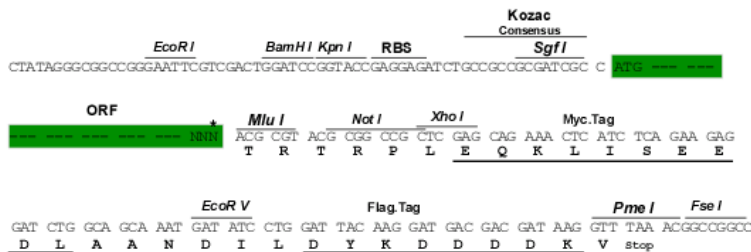
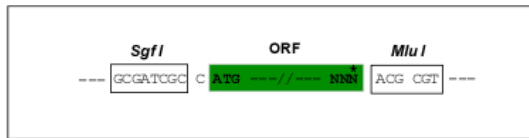
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



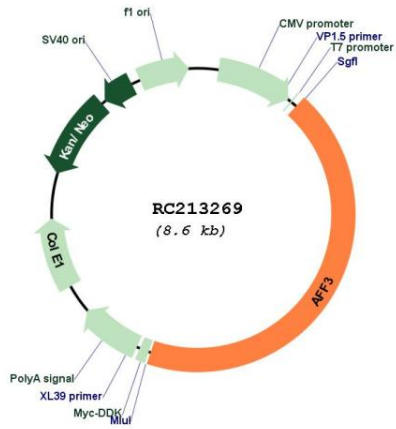
* The last codon before the Stop codon of the ORF

ACCN: NM_001025108

ORF Size: 3753 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_001025108.2
RefSeq Size:	8136 bp
RefSeq ORF:	3756 bp
Locus ID:	3899
UniProt ID:	P51826
Cytogenetics:	2q11.2
Protein Families:	Transcription Factors
MW:	136.2 kDa
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]

Product images:



Circular map for RC213269