

## Product datasheet for **SC336809**

### AF9 (MLLT3) (NM\_001286691) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                             |
| Product Name:             | AF9 (MLLT3) (NM_001286691) Human Untagged Clone |
| Tag:                      | Tag Free  |
| Symbol:                   | AF9   |
| Synonyms:                 | AF9; YEATS3                                     |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)                          |
| E. coli Selection:        | Kanamycin (25 ug/mL)                            |



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**Fully Sequenced ORF:** >SC336809 representing NM\_001286691.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTGTCCGTGCAGGTGAAGCTGGAGCTGGGGCACCGCCAGGTGAGGAAAAACCCACCGTGGAG
GGCTTCAACCACGACTGGATGGTGTTCGTACGCGGTCCGGAGCACAGTAACATACAGCATTGTGGAG
AAAGTCGTCTTCCACTTGCACGAAAGCTTCTAGGCCAAAAAGAGTGTGCAAAGATCCACCTTACAAA
GTAGAAGAATCTGGGTATGCTGTTTCATTTTGCCAATTGAAGTTATTTTAAAAACAAGGAAGAACCT
AGGAAAGTCCGCTTTGATTATGACTTATTCCTGCATCTTGAAGGCCATCCACCAGTGAATCACCTCCGC
TGTGAAAAGCTAACTTTCAACAACCCACAGAGGACTTTAGGAGAAAGTTGCTGAAGGCAGGAGGGGAC
CCTAATAGGAGTATTCATACCAGCAGCAGCAGCAGCAGCAGCAGTACGAGCAGCAGCAGCAGCAGCAGC
AGCAGCAGTAGCAGCAGCAGCAGCAGCAGCAGCAGCAGTACGAGCAGCAGTACGAGCAGCAGCAGCAGC
AGCAGTAGTACCAGTTTTTCAAAGCCTCACAATAATGAAGGAGCACAAGGAAAAACCTTCTAAAGAC
TCCAGAGAACATAAAAGTGCCTTCAAAGAACCTTCCAGGGATCACAACAAATCTTCAAAGAATCTCT
AAGAAACCCAAAAGAAAATAAACCACTGAAAGAAGAGAAAATAGTTCTTAAGATGGCCTTCAAGGAACCT
AAACCCATGTCAAAGAGCCAAAACAGATAGTAACTTACTCACCATCACCAGTGGACAAGATAAGAAG
GCTCCTAGTAAAAGGCCCCATTTTCAGATTCTGAAGAACTCTCAGCCAAAAAAGGAAAAAGAGTAGC
TCAGAGGCTTTATTTAAAAGTTTTTCTAGCGCACCACCACTGATACTCACTTGTCTGCTGACAAAAAA
CAGATAAAAGATAAATCTCATGTCAAGATGGGAAAGGTCAAAATTGAAAGTGAGACATCAGAGAAGAAG
AAATCAACGTTACCGCCATTTGATGATATTGTGGATCCCAATGATTCAGATGTGGAGGAGAATATATCC
TCTAAATCTGATTCTGAACAACCCAGTCCCTGCCAGCTCCAGCTCCAGCTCCAGCTCCAGCTTACACCA
TCCAGACCAGGCAACAAGGTCTTTGAGGTCTATAATGAAAGATCTGCATTCTGATGACAATGAGGAG
GAATCAGATGAAGTGGAGGATAACGACAATGACTCTGAAATGGAGAGGCCTGTAATAGAGGAGGCAGC
CGAAGTGCAGAGTTAGCTTAAGTGATGGCAGCGATAGTGAAGCAGTTCTGCTTCTTACCCTACAT
CACGAACCTCCACCACCTTACTAAAAACCAACAACCAACAGATTCTTGAAGTGAAGTCCAATAAAG
CAAAGCAAATCAGATAAGCAAATAAAGAATGGTGAATGTGACAAGGCATACCTAGATGAACTGGTAGAG
CTTACAGAAAGTTAATGACATTGAGAGAAAGACACATTCTGCAGCAGATCGTGAACCTTATAGAAGAA
ACTGGACACTTTCATATCACAACACAACATTTGATTTTGATCTTTGCTCGCTGGACAAAACACAGTC
CGTAAACTACAGAGTTACCTGGAACATCTGGAACATCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001286691

**Insert Size:** 1698 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001286691.1](#)

**RefSeq Size:** 6703 bp

**RefSeq ORF:** 1698 bp

**Locus ID:** 4300

**UniProt ID:** [P42568](#)

**Cytogenetics:** 9p21.3

**Protein Families:** Transcription Factors

**MW:** 63.1 kDa

**Gene Summary:** Chromatin reader component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA (PubMed:20159561, PubMed:20471948, PubMed:25417107, PubMed:27105114, PubMed:27545619). Specifically recognizes and binds acylated histone H3, with a marked preference for histone H3 that is crotonylated (PubMed:25417107, PubMed:27105114, PubMed:27545619). Crotonylation marks active promoters and enhancers and confers resistance to transcriptional repressors (PubMed:25417107, PubMed:27105114, PubMed:27545619). Recognizes and binds histone H3 crotonylated at 'Lys-9' (H3K9cr), and with slightly lower affinity histone H3 crotonylated at 'Lys-18' (H3K18cr) (PubMed:27105114). Also recognizes and binds histone H3 acetylated at 'Lys-9' (H3K9ac), but with lower affinity than crotonylated histone H3 (PubMed:25417107, PubMed:27105114). In the SEC complex, MLLT3 is required to recruit the complex to crotonylated histones (PubMed:27105114, PubMed:27545619).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate 5' exon and it thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.