

## Product datasheet for MC223774

### Aff4 (NM\_033565) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Aff4 (NM\_033565) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Aff4  
 Synonyms: AF5Q31; Alf4; Laf4; MCEF  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC223774 representing NM\_033565  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAACCGTGAAGACCGGAATGTGCTGCGCATGAAAGAAAGGAAAGGCCGAATCAGGAAATTCAGCAGG  
 GTGAAGACGCCTTCCCACCTAGTTCTCCTCTTTGCTGAGCCATACAAAGTCACTAGCAAAGAAGATAA  
 GTTATCAAGTCGGATTCAGAGCATGCTTGAAACTACGATGAAATGAAGGATTACATAGGAGACAGATCG  
 ATACCAAAGCTTGTGCAATCCCAAGCCTGCAGTACCAACGACCACAGACGAGAAAAGCAAACCCAAATT  
 TTTTGTAGCAGAGACATGGAGGATCTCATCAGAGTAGCAAATGGACTCCTGTAGGCCCCGCCCCAGCAC  
 CTCTCAGTCTCAGAAACGCTCCTCTGCCCTGCAGAGTGGACACAGCAGCCAACGGAGTGGTGCAGGAGGG  
 AGTGGCGCCAGCAGCAGTGGCCAGAGGCATGACCGTGACTCCTACAGCAGTAGCAGGAAAAAGGCCAGC  
 ACGGCTCAGAGCACTCCAAATCTCGATCCTCAAGCCCTGGAAAACCCAGGCTGTTTCTTCATTAAGTTC  
 TAGTCATCCAGGTCTCATGGGAATGATCACCATAGCAAGGAACATCAGCGCTCCAAATCACCTCGGGAC  
 CCTGATGCCAACTGGGATTCCTTCCCAGGACCTTTTCAAGTGGCAACATCAAGTCAGTCTTTCC  
 CACCTTCTTTGATGTCAAATCTAGTTCAATGTTACAGAAACCCACTGCCTATGTACGGCCCATGGATGG  
 ACAGGAGTCTGTGGAACCAAAGCTGTCCCTGAGCACTACAGCAGCCAGTCTCATGGTAATAGCATGACT  
 GAGCTGAAGCCCAGCAGCAAAGCACATCTCACCAAGCTGAAAATTCCTTCCCAGCCTTTGGATGCATCGG  
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 AACTTTGGCCCTGGAGAACAAAAAGATACAGTACTGCTAAAACATCAAATGGACACCAGTCAAAATCTA  
 TGTTAAAAGATGACTTAAAATAAGCAGCAGTGAAGACAGTGTGGGAAACAGGATTGTGATAAGACAAT  
 GCCAAGGAGTACACCAGGAAGTAACTCTGAACCTTACACCATAACAGTGAGGGAGCAGACAACCTCAGG  
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 GTGACAGTGAAGGCTAATGAGCCCTCGCAGAGCGCATCTCCTGAGCCTGAACCACCAACAACAAGTGT  
 GCAACTTGATAATTGGTTGAATAAAGTGAACCCACATAAAGTATCCCCAGCTTCTCTGTAGACAGCAAC  
 ATCCCATCTTCTCAAGCCTACAAGAAAGAGGCCGGGAGCAGGGCACTGCCAGTAACTACACAGATCCAG



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GGGGACAAAAGAAACGAGCTCTGCCACCCAGGACGAGACTCTAAAACCATCCAAAAGGGATCAGAAAG  
 TGGCCGTGGGAGGCAGAAGTCTCCTGCACAGAGCGACGTACCACTCAGAGGAGAAGTGTGCGCAAAAA  
 CAACCCAAAAACCTGAGAAGTCAGCTGCTGAAGAGCCTCGTGGAGGCCTGAAGATAGAAAGTGAGACCC  
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 CCGTCCCAGAAGTCTCGGGAGATCATAGAGACTGACACCTCGTCCTCAGACTCGGACGGCAGCGAGAGCC  
 TGCTCCCTCCTCACAGACTCCTAAGTACCCTGAAAGCAACAGGACTCCTGTCAAACCTCCTCAGTGGGA  
 GGAAGAAGATAGCTTTTTTCGGCAACGAATGTTCTCCTATGGAAGAGAAGGAGCTCCTTTCCCCACTC  
 AGTGAGCCTGATGACAGGTATCCACTCATTGTGAAGATTGACCTCAATCTTCTGACTCGAATACCCGGGA  
 AGCCTTACAAAGAAACAGAGCCACCCAGGGGGAAAAGAAAAATGTTCCAGAGAAACACTCGAGAGAGGT  
 GCAGAAGCAAGCCTCAGAAAAGGCTTCCAACAAAGGCAAGAGGAAACACAAGAATGATGATGATACCCGA  
 GCCAGTGAGAGCAAAAAACCCAAAACAGAGGACAAGAAGTATCAGGCCACAAGCCATCCAGCAGCAGAG  
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 ACCAGCAGCAAAGAGAACAGTGGCAGCAGCAGCAAGAGCAGCTCCTCCTCCACAGCGAAGCAGAAGAAGA  
 CTGAAGGCAAGGGTCCCAGCAGCTCCAAGGAGGCCAAGGAGAAGGCTCCAATAGCTCCTTAATTGTCC  
 TCCGTCTACCCAATTCTGAGTCTTGAAGCCTCGGAGAACAAAGCTTGCCCTTGATGACAGAAATAT  
 TCAGCAGACCATTTTACAAGAAGCAAAAAACTCAAACACAATGCAGATGCTTTGTCTGACAGGTTTG  
 AGAAAGCCGTGTACTACCTTGATGCTGTAGTGTCTTTCATTGAGTGTGGGAATGCATTAGAGAAGAAGCG  
 TCAGGAATCCAAGTCCCCATTCCCTATGTACTCAGACACGGTGGAGCTCATTAAAGTACACTATGAAACTA  
 AAGAATTTTGGCACCAGATGCTACAGCTGCAGACAAGAGACTCACAGTACTTTGCCTGAGATGCCAGT  
 CATTATTGTACCTGAGGCTGTTCAAACCTGAAGAAGGAGAAGCCTCTCAAGTACTCCAAGACGCTAACTGA  
 GCACCTGAAGAATTCTTACAGTAATTCTAAGCACCTTCACCCGGCTTGGGGAGCAAAGCTGTTGGGATG  
 CCCTCCCCTGTTTCTCCAAAAGTGTACCAGGCAATTCTGGAAGTTACTTCTGCGGGAAGTAGTGCTT  
 CAGCAAGTGTTCTTCAAGTGACCATTCACAGAAAATCCACCAGATGGCAGCAAGCTATGTCCAGGTTAC  
 ATCTAACTTCTCTATGCCACAGAAATTTGGGACCAAGCTGAACAGCTTTCAAAGAACAAAAAGAATTC  
 TTTGCTGAACTGGACAAAGTGTGGGCCCTCTCATCTTTAATGCAAGCATCATGACAGATCTGGCTCGTT  
 ACACCCGGCAGGGACTGCATTGGCTTCGGCAGGATGCCAAGCTGATATCTTGA

ACGGCTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_033565

**Insert Size:**

3483 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\\_033565.2](#), [NP\\_291043.1](#)

**RefSeq Size:** 10165 bp

**RefSeq ORF:** 3483 bp

**Locus ID:** 93736

**UniProt ID:** [Q9ESC8](#)

**Cytogenetics:** 11 B1.3

**Gene Summary:** Key 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. In the SEC complex, AFF4 acts as a central scaffold that recruits other factors through direct interactions with ELL proteins (ELL, ELL2 or ELL3) and the P-TEFb complex. In case of infection by HIV-1 virus, the SEC complex is recruited by the viral Tat protein to stimulate viral gene expression (By similarity).[UniProtKB/Swiss-Prot Function]