

## Product datasheet for **MG221126**

### **Klf16 (NM\_078477) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Klf16 (NM\_078477) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Klf16  
**Synonyms:** AI843742; BTEB4; DRRF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG221126 representing NM\_078477  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGCGGCCGTGGCGTGTGTGGATTACTTTGCCGCCGACGTGCTCATGGCCATCTCCTCGGGAGCCG  
 TGGTGATCGCGGACGACCCGGCCCCGAGGGCGCGGGCCCCGCTGCCGGTCTGGATGTGCGCGCCACGCG  
 CCGCGAGGCCACGCCCGGGGACCCCTGGGGCACGCCACGCCAGCTACGGCTCCGGGGCCGGAGGC  
 GCCACCGCTGCGCCCCACCTGCTGGCCGCCAGCATCCTGGCCGATCTGAGAGCGGGCCGGTAGTCGCCA  
 CCGCAGCCAGCACCGGGGGGACCTCTCCGGTCTCCTCCTCCTCAGCCGCTTCGCTCCCTCTTCGGG  
 CCGCGCCCCCGCGCCGCCAAAAGCCACCGCTGTCCCTTCCATGGCTGCGCCAAAAGCCTATTACAAGTCT  
 TCGCACCTCAAGTCACACCTGCGGACTCACACAGGTGAGCGGCCCTTTGCCTGCGACTGGCTGGCTGTG  
 ACAAGAAGTTCGCCCCGTTCTGATGAGCTGGCCGCCACCACCGGACGCACACCGGGGAGAAGCGCTTCCC  
 CTGCCCTGTGTACCAAGCGTTACCCGAAGCGACCACCTGACCAAGCACGCCCGCGGACATCCCGGC  
 TTCCGCCCGGAATCCTGCGACGACCTGGTGCCCGCAGCGTCTCGCCAGCGACTCGCTGCCCTGCAGCT  
 TGGCTGGAAGCCCCACACCTAGCCCTGTCCCAGCCAGCTCCTGCTGGCTTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221126 representing NM\_078477  
 Red=Cloning site Green=Tags(s)

MSAAVACVDYFAADVLMAISSGAVVHRGRPGPEGAGPAAGLDVRATRREATPPGTPGAPPPATAPGPGG  
 ATAAPHLLAASILADLRGGPVVATAASTAGGTSPVSSSSAASSPSSGRAPGAAKSHRCPFHGCAKAYYKS  
 SHLKSHLRTHTGERPFACDWP GCDKKF ARSDELARHHRTHTGEKRFPCLCTKRF TRSDHLTKHARRHPG  
 FRPELLRRPGARSVSPDSLPCSLAGSPTPSPVPSAPAGL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_078477

**ORF Size:** 753 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\\_078477.2](#), [NP\\_510962.2](#)

**RefSeq Size:** 2652 bp

**RefSeq ORF:** 756 bp

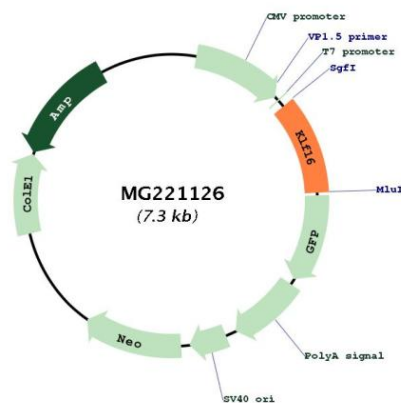
**Locus ID:** 118445

**UniProt ID:** [P58334](#)

**Cytogenetics:** 10 C1

**Gene Summary:** Transcription factor that binds GC and GT boxes in the D1A, D2 and D3 dopamine receptor promoters and displaces Sp1 and Sp3 from these sequences. It modulates dopaminergic transmission in the brain by repressing or activating transcription from several different promoters depending on cellular context.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG221126