

Product datasheet for MR221126

Klf16 (NM_078477) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klf16 (NM_078477) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klf16
Synonyms:	A1843742; BTEB4; DRRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221126 representing NM_078477 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCGGCCGTGGCGTGTGTGGATTACTTTGCCGCCGACGTGCTCATGGCCATCTCCTCGGGAGCCG
TGGTGATCGCGGACGACCCGGCCCCGAGGGCGCGGGCCCCGCTGCCGGTCTGGATGTGCGCGCCACGCG
CCGCGAGGCCACGCCCGGGGACCCCTGGGGCACGCCACGCCAGCTACGGCTCCGGGGCCGGGAGGC
GCCACCGCTGCGCCCCACCTGCTGGCCGCCAGCATCCTGGCCGATCTGAGAGGCGGGCCGGTAGTCGCCA
CCGCAGCCAGCACCGGGGGGACCTCTCCGGTCTCCTCCTCCTCAGCCGCTTCGCTCTCCCTCTTCGGG
CCGCGCCCCCGGCCGCGCCAAAAGCCACCGCTGTCCCTTCCATGGCTGCGCCAAAAGCCTATTACAAGTCT
TCGCACCTCAAGTCACACCTGCGGACTCACACAGGTGAGCGGCCCTTTGCCTGCGACTGGCTGGCTGTG
ACAAGAAGTTCGCCCGTTCTGATGAGCTGGCCCGCCACCACCGGACGCACACCGGGGAGAAGCGCTTCCC
CTGCCCTGTGTACCAAGCGGTTACCCGAAGCGACCACCTGACCAAGCACGCCCGCGGACATCCCGGC
TTCCGCCCCGAACTCTGCGACGACCTGGTGCCCGCAGCGTCTCGCCAGCGACTCGCTGCCCTGCAGCT
TGGCTGGAAGCCCCACACCTAGCCCTGTCCCCAGCCAGCTCCTGCTGGCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221126 representing NM_078477
Red=Cloning site Green=Tags(s)

MSAAVACVDYFAADVLMAISSGAVVHRGRPGPEGAGPAAGLDVRATRREATPPGTPGAPPPATAPGGG
 ATAAPHLLAASILADLRGGPVVATAASTAGGTSPVSSSAASSPSSGRAPGAAKSHRCPFHGCAKAYYKS
 SHLKSHLRTHTGERPFACDWPGCDKKFARSDELARHHRHTHTEKRFPCPLCTKRFTRSDHLTKHARRHPG
 FRPELLRRPGARSVSPSDSLPCSLAGSPTPSPVPSAPAGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_h07.zip

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

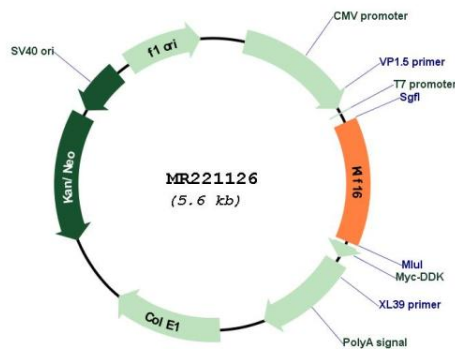
UniProt ID: [P58334](#)

Cytogenetics: 10 C1

MW: 26.1 kDa

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 MR221126