

Product datasheet for MR226357

Klf2 (NM_008452) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Klf2 (NM_008452) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Klf2 |
| Synonyms: | Lklf |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR226357 representing NM_008452 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCGCTCAGCGAGCCTATCTTGCCGTCTTTGCCACTTTCCGCCAGCCCGTGCGAGCGCGGCTCCAGG
AGCGCTGGCCGCGAAATGAACCCGAGGCGGGCGGCACGGATGAGGACCTAAACAACGTGTTGGACTTCAT
CCTCTCCATGGGATTGGACGGTCTGGGCGCCGAAATCCTCCGAGCCCCGCGCAGCCCCGCGCCT
GCCTTCTACTACCGGAGCCGGGTGCTCCGCCCCCTACAGCATCCCCGCGCCAGCCTGGGAACAGAGC
TGCTGCGCCCCGACCTGGACCCGCTCAGGGGCGGCTCTGCACGCGCTTCTCCTCGCGCTCCCG
GCGGCTAGTGAAGCCGAGCCCCCGAGGTGGACGGCGGCGGCTACGGCTGCGCTCCGGGCTGGCCAC
GGACCGCGCGGGCTGAAGCTCGAGGGCGCCCCAGGAGCGACAGGTGCATGCATGCGGGTCCCGCGGCC
GCCCCCGCGCCCGGACACGCGCGCTCAGCCCCGACGGCCCCCTGCGCATCCCGCGTCCGGTCC
CCGCAACCCGTTCCCGCGCCCTTCGGTCCCGGCCAGCTTCGGCGGTCCCGGCCCGGCTTGCCTAC
GGGCTCCCGCGCTGGCGCTTCGGTCTTTTCGAGGACGCGCGGCGAGCGGCGGCGGCTGGGCTTG
CTCCACCTGCCACGCGGGTCTCCTCACGCCGCCCTCGTCCCCGCTGGAGCTGCTGGAGGCCAAGCCAA
ACGCGGCCGCGCTCCTGGCCCCGAAGCGCGCCGCCACATACTTGCAGCTACACCAACTGCGGCAAG
ACCTACACCAAGAGCTCGCACCTAAAGGCGCATCTGCTACACACAGGTGAGAAGCCTTATCATTGCA
ACTGGGAAGGATGCGGCTGGAAGTTCGCGCGCTCTGACGAGCTTACCGCCACTACCGAAAGCACACAGG
TCACAGACCCCTTTCAGTGCCACTTGTGCGACCGGGCTTCTCCAGGTCCGACCACCTGGCCTTGACATG
AAGCGACACATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR226357 representing NM_008452
Red=Cloning site Green=Tags(s)

MALSEPILPSFATFASPCERGLQERWPRNEPEAGGTDEDLNNVLDLILSMGLDGLGAENPPEPPPQPPPP
 AFYYPEPGAPPYSIPAASLGTELLRPDLDPQGPALHGRFLLAPPGRLVKAEPPEVDGGYGCAPGLAH
 GPRGLKLEGAPGATGACMRGPAGRPPPPDTPPLSPDGPLRIPASGPRNPFPPPFPGPSFGGPGPALHY
 GPPAPGAFGLFEDAAAAAALGLAPPATRGLLTPPSSPLELLEAKPKRGRRSWPRKRAATHCSYTNCGK
 TYTKSSHLKAHLRTHTGEKPYHCNWECCGWKFARSEDELTRHYRKHTGHRPFQCHLCDRAF SRSDHLALHM
 KRHM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9032_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008452

ORF Size: 1062 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_008452.2](#), [NP_032478.2](#)

RefSeq Size: 1816 bp

RefSeq ORF: 1065 bp

Locus ID: 16598

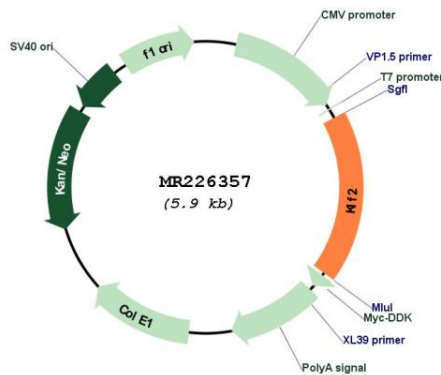
UniProt ID: [Q60843](#)

Cytogenetics: 8 B3.3

MW: 38.1 kDa

Gene Summary: Transcription factor that binds to the CACCC box in the promoter of target genes such as HBB/beta globin or NOV and activates their transcription. Might be involved in transcriptional regulation by modulating the binding of the RARA nuclear receptor to RARE DNA elements (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226357