

Product datasheet for **MR226854**

Klf4 (NM_010637) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klf4 (NM_010637) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klf4
Synonyms:	EZF; Gklf; Zie
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226854 representing NM_010637
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGTGACGACGCTCTGCTCCCGTCTTCTCCACGTTTCGCGTCCGGCCCGGCCGGAAGGGAGAAGA
 CACTGCGTCCAGCAGGTGCCCGACTAACCCTGGCGTGAGGAACCTCTCACATGAAGCGACTTCCCC
 ACTTCCCGGCCGCCCTACGACCTGGCGCGACGGTGGCCACAGACCTGGAGAGTGGCGGAGCTGGTGCA
 GCTTGCAGCAGTAACAACCCGGCCCTCCTAGCCCGGAGGGAGACCAGGAGTTCAACGACCTCTGGACC
 TAGACTTTATCCTTTCCAACCTCGCTAACCCACCAGGAATCGGTGGCCGCCACCGTGACCCTCGGCGTC
 AGCTTCATCCTCGTCTTCCCGAGCAGCAGCGCCCTGCCAGCGCGCCCTCCACCTGCAGCTTCAGCTAT
 CCGATCCGGGCCGGGGTGACCCGGGCGTGGTCCAGCAACACAGGTGGAGGGCTCTCTACAGCCGAG
 AATCTGCGCCACCTCCACGGCCCTTCAACCTGGCGGACATCAATGACGTGAGCCCTCGGGCGGCTT
 CGTGGCTGAGCTCCTGCGCCGGAGTTGGACCCAGTATACATTCCGCCACAGCAGCTCAGCCGCCAGT
 GCGGGCTGATGGCAAGTTTGTGCTGAAGGCGTCTTGACCACCCTGGCAGCGAGTACAGCAGCCCTT
 CGGTATCAGTGTAGCAAAGGAAGCCAGACGGCAGCCACCCCGTGGTGTAGTGGCGCCCTACAGCGGTGG
 CCCGCCGCGCATGTGCCCAAGATTAAGCAAGAGGCGGTCCCGTCTGCACGGTACAGCCGTCCCTAGAG
 GCCATTTGAGCGCTGGACCCAGCTCAGCAACGGCCACCGGCCAACACACAGACTTCCCCCTGGGGC
 GGCAGTCCCCACAGGACTACCCTACACTGAGTCCCGAGGAAGTGTGAACAGCAGGGACTGTACCC
 TGGCCTGCCTCTCCCCAGGATTCATCCCCATCCGGGGCCAACTACCTCCTTCTGCCAGACCAG
 ATGCAGTCACAAGTCCCCTCTCTCCATTATCAAGAGTCTATGCCACCGGGTCTGCCTGCCAGAGGAGC
 CCAAGCCAAAGAGGGGAAGAAGTCTGGCCCGGAAAAGAAGCCACCCACACTTGTGACTATGACAGG
 CTGTGGCAAACCTATACCAAGAGTTCTCATCTCAAGGCACACCTGCGAACTCACACAGGCGGAAACCT
 TACCAGTGTGACTGGGACGGCTGTGGGTGAAATTCGCCCGCTCGGATGAACTGACCAGGCACTACCGCA
 AACACACAGGGCACCGGCCCTTTCAGTGCCAGAAGTGCAGACGGGCTTTTCCAGGTGCGACCACCTTGC
 CTTACACATGAAGAGGCACTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226854 representing NM_010637
 Red=Cloning site Green=Tags(s)

MAVSDALLPSFSTFASGPAGREKTLRPAGAPTNRWREELSHMKRLPPLPGRPYDLAATVATDLESGGAGA
 ACSSNNPALLARRETEEFNDLLDLDLILSNLTHQESVAATVTTASASSSSSPASSGPASAPSTCSFSY
 PIRAGGDPGVAASNTGGGLLYSRESAPPPTAPFNLADINDVSPSGGFVAELLRPELDPVYIPPQQPQPPG
 GGLMGKFLKASLTPGSEYSSPSVISVSKGSPDGSHPVVVPYSGGPPRMCPKIKQEAVPCTVSRSL
 AHL SAGPQLSNGHRPNTHDFPLGRQLPRTTPTLSPEELLNSRDCHPGLPLPPGFHHPGPNYPFLPDQ
 MQSQVPSLHYQELMPPGSCLPEEPKPKRGRRSWPRKRTATHTCDYAGCGKTYTKSSHLKAHLRHTGKPK
 YHCDWDGCGWKFARSDELTRHYRKHTGHRPFQCQKCDRAF SRSDHLALHMKRHF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010637

ORF Size: 1422 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_010637.1](#), [NM_010637.2](#)

RefSeq Size: 3057 bp

RefSeq ORF: 1452 bp

Locus ID: 16600

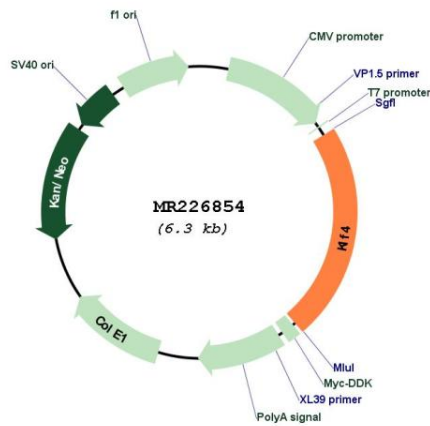
UniProt ID: [Q60793](#)

Cytogenetics: 4 29.76 cM

MW: 52.3 kDa

Gene Summary: Transcription factor; can act both as activator and as repressor. Binds the 5'-CACCC-3' core sequence. Binds to the promoter region of its own gene and can activate its own transcription. Regulates the expression of key transcription factors during embryonic development. Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation. Required for establishing the barrier function of the skin and for postnatal maturation and maintenance of the ocular surface. Involved in the differentiation of epithelial cells and may also function in skeletal and kidney development. Contributes to the down-regulation of p53/TP53 transcription (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226854