

Product datasheet for **MC200668**

Klf4 (BC010301) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klf4 (BC010301) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Klf4
Synonyms:	EZF; Gklf; Zie
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC010301
 CCCGCGCCATGGCCGCGCACCCGGCACAGTCCCAGGACTCCGCACCCCGCGCCACCGCCAGCTCG
 CAGTTCGCGGCCACCGCGGCCATTCTCACTGGCGGCGCCGCCCGCCACCGCCGGACCACAGCCCCG
 CGCCGCGACAGCCACAGTGGCCGCGACAACGGTGGGGACACTGCTGAGTCCAAGAGCGTGCAGCCTGG
 CCATCGGACCTACTTATCTGCCTTGCTGATTGTCTATTTTTATAAGAGTTTACAACCTTTCTAAGAAATTT
 TTGTATACAAAGAACTTTTTAAAGACATCGCCGGTTTATATTGAATCCAAAGAAGGATCTCGGGCAAT
 CTGGGGGTTTTGGTTTTGAGTTTTGTTTTCTAAAGTTTTTAACTCTCGTTGACTTTGGGGCTCGGGTACCC
 CTCTTTTTCTTCGGACTCCGGAGGACCTTCTGGGCCCCACATTAATGAGGCAGCCACCTGGCGAGTCT
 GACATGGCTGTCAGCGACGCTCTGCTCCCGTCTTCTCCACGTTTCGCGTCCGGCCCGCGGGAAGGAGA
 AGACACTGCGTCCAGCAGGTGCCCGACTAACCCTGGCGTGAGGAACTCTCTACATGAAGCGACTTCC
 CCCACTTCCCGGCCGCCCTACGACCTGGCGGCGACGGTGGCCACAGACCTGGAGAGTGGCGGAGCTGGT
 GCAGCTTGACAGTAACAACCCGGCCCTCTAGCCGGAGGGAGACCGAGGAGTTCAACGACCTCTGG
 ACCTAGACTTTATCCTTTCCAACCTCGCTAACCCACCAGGAATCGGTGGCCGCCACCGTGACCACCTCGG
 GTCAGCTTCATCCTCGTCTTCCCAGCGAGCAGCGGCCCTGCCAGCGGCCCTCCACCTGCAGCTTCAGC
 TATCCGATCCGGCCGGGGTGACCCGGCGTGGCTGCCAGCAACACAGGTGGAGGGCTCTCTACAGCC
 GAGAATCTGCGCCACCTCCCACGGCCCTTCAACCTGGCGGACATCAATGACGTGAGCCCTCGGGCGG
 CTTCTGGCTGAGCTCCTGCGGCCGGAGTTGGACCCAGTATACATTCCGCCACAGCAGCCTCAGCCGCCA
 GGTGGCGGGCTGATGGGCAAGTTTGTGCTGAAGGCGTCTCTGACCACCCCTGGCAGCGAGTACAGCAGCC
 CTTTCGGTCATCAGTGTTAGCAAAGGAAGCCAGACGGCAGCCACCCCGTGGTAGTGGCGCCCTACAGCGG
 TGGCCCGCCGCGCATGTGCCCAAGATTAAGCAAGAGGCGGTCCCGTCTGCACGGTTCAGCCGGTCCCTA
 GAGGCCATTTGAGCGCTGGACCCAGCTCAGCAACGGCCACCGGCCAACACACAGACTTCCCCTGG
 GCGCGCAGCTCCCACCAGGACTACCCCTACACTGAGTCCCGAGGAACTGCTGAACAGCAGGGACTGTCA
 CCCTGGCCTGCCCTTCCCAGGATCCATCCCATCCGGGGCCCAACTACCTCCTTTCTGCCAGAC
 CAGATGCAGTCACAAGTCCCCTCTCTCATTATCAAGAGCTCATGCCACCGGGTTCTGCCTGCCAGAGG
 AGCCAAAGCCAAAGAGGGGAAGAAGTCTGGCCCGGAAAAGAAGCAGCCACCCACACTGTGACTATGC
 AGGCTGTGGCAAAACCTATACCAAGAGTCTCATCTCAAGGCACACCTGCGAACTCACACAGGCGAGAAA
 CCTTACCAGTGTGACTGGGACGGCTGTGGTGGAATTCGCCGCTCGGATGAACTGACCAGGCACTACC
 GCAAACACACAGGGCACCGGCCCTTTCAGTGCCAGAAAGTGCAGAGGGCCTTTTCCAGGTTCGACCCT
 TGCCTTACACATGAAGAGGCACTTTTAAATCCCACGTAGTGGATGTGACCCACACTGCCAGGAGAGAG
 TTCAGTATTTTTTTTCTAACCTTTCACACTGTCTTCCCAGAGGGGAGGAGCCAGCTGGCAAGCGCTA
 CAATCATGGTCAAGTCCCAGCAAGTCAGCTTGTGAATGGATAATCAGGAGAAAGGAAGTCCAAGAGA
 CAAAACAGAAATACTAAAAACAAACAAACAAAAACAAAAACAAAAACAAAAACAAAAACAAAAACAAAA

Restriction Sites: RsrII-NotI

ACCN: BC010301

Insert Size: 1425 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.

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

RefSeq: [BC010301](#), [AAH10301](#)

RefSeq Size: 2156 bp

RefSeq ORF: 1425 bp

Locus ID: 16600

Cytogenetics: 4 29.76 cM

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]