

## Product datasheet for MR204201

### Klf7 (NM\_033563) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Klf7 (NM_033563) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klf7
Synonyms:	9830124P08Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204201 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGTGTTGGCTAGTTATAGTATATTCAGGAGCTACAACCTGTCCACGACACCCGGCTACTTCTCAG  
CTTTGCCATCCCTGGAGGAGACCTGGCAGCAGACATGCCTTGAGTTGGAACGCTACCTCCAGACAGAACC  
CCGGCGGATCTCGGAGACCTTTGGTGAGGACTTGGACTGCTTCTCCACGCTTCTCTCCCCATGCATT  
GAGGAGAGCTTCCGGCGCTAGACCCCTTGCTGCTCCAGTGGAAGCCACCATCTGCGAGAAGAGCTCCG  
CAGTGGACATTTGCTCTCTCGGACAAGTTGCTATCTGAGACCTGCCTCAGCCTCCAGCCAACCCAGCTC  
TTCTCTAGACAGCTACACAGCCGTCACACAGGCCAGCTCAACGAGTGACCTCATTAAACGCCGCCCTCA  
TCCCTGAGCTCAGCCGCCATCTGGTCAAAACCTCACAGACTCTCTCAGCCGTGGATGGCACAGTGACGT  
TGAAACTGGTGGCCAAGAAGGCTTCCCTCAGCTCGGTGAAGGTGGGAGGGGTGGCGGCGGCGGACGCCGT  
GACACCAGCTGGAGCAGTTAAGAGTGGACAGAGCGACAGTGAGCAAGGAGGGGGAGGGGCTGACACATGC  
CCTGAAAACAAGAAGAGGGTCCATCGCTGTGAGTTAACGGGTGCCGAAAGTTTATACAAAAGCTCCC  
ACTTAAAGGCCACCAGAGGACTCACACAGGTGAGAAGCCTTACAAGTGTCTATGGAAGGATGCGAGTG  
GCGTTTTGCACGGAGCGATGAGCTACAAGGCACTACAGGAAACACAGGTGCAAAAGCCCTTAAAGTGT  
AACCACTGCGACAGGTGTTTCTCAGGTCTGACCATCTTGGCTCCATATGAAGAGACATATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204201 protein sequence  
Red=Cloning site Green=Tags(s)

MDVLASYSIFQELQLVHDTGYFSALPSLEETWQQTCLLERYLQTEPRRISETFGEDLDCFLHASPPPCI  
 EESFRRLDPLLLPVEATICEKSSAVDILLSRDKLLSETCLSLQPTSSSLDSYAVNQAQLNAVTSLTTPPS  
 SPELSRHLVKTSQTL SAVDGTVTLKLVAKKASLSSVKVGGVAAAAAVTPAGAVKSGQSDSEQGGGGADTC  
 PENKRVHRCQFNGCRKVYTKSSHLLKAHQRTHTGEKPKYKCSWEGCEWRFARSDEL TRHYRKHTGAKPFKC  
 NHCDFRSRSDHLALHMKRHI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_033563

**ORF Size:** 906 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\\_033563.2](#), [NP\\_291041.2](#)

**RefSeq Size:** 1344 bp

**RefSeq ORF:** 906 bp

**Locus ID:** 93691

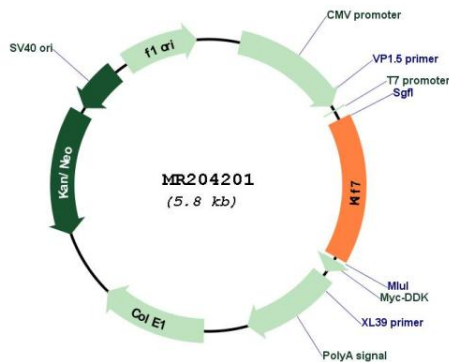
**UniProt ID:** [Q99JB0](#)

**Cytogenetics:** 1 C2

**MW:** 33.3 kDa

**Gene Summary:** Transcriptional factor (PubMed:11245580). Plays a critical role in neuronal morphogenesis (PubMed:11336497, PubMed:15964824). Represses the corneal epithelium differentiation (By similarity). Acts also as a metabolic regulator, by modulating insulin sensitivity in pancreatic beta cells and skeletal muscle cells. Inhibits transcriptional inducers of adipogenesis and has a repressive role in the expression of several adipokines, including leptin (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204201