

Product datasheet for **MG204201**

Klf7 (NM_033563) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Klf7 (NM_033563) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Klf7
Synonyms: 9830124P08Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204201 representing NM_033563
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGTGTTGGCTAGTTATAGTATATTCAGGAGCTACAACCTGTCCACGACACCGGCTACTTCTCAG
 CTTTGCCATCCCTGGAGGAGACCTGGCAGCAGACATGCCTTGAGTTGGAACGCTACCTCCAGACAGAACC
 CCGGCGGATCTCGGAGACCTTTGGTGAGGACTTGGACTGCTTCTCCACGCTTCTCTCCCCATGCATT
 GAGGAGAGCTTCCGGCGCTAGACCCCTTGCTGCTCCAGTGGAAGCCACCATCTGCGAGAAGAGCTCCG
 CAGTGGACATTTGCTCTCTCGGACAAGTTGCTATCTGAGACCTGCCTCAGCCTCCAGCCAACCCAGCTC
 TTCTCTAGACAGCTACACAGCCGTCACACAGGCCAGCTCAACGAGTGACCTCATTAAACGCCGCCCTCA
 TCCCTGAGCTCAGCCGCATCTGGTCAAAACCTCACAGACTCTCTCAGCCGTGGATGGCACAGTGACGT
 TGAAACTGGTGGCCAAGAAGGCTTCCCTCAGCTCGGTGAAGGTGGGAGGGGTGGCGGCGGCGGACGCCGT
 GACACCAGCTGGAGCAGTTAAGAGTGGACAGAGCGACAGTGAGCAAGGAGGGGGAGGGGCTGACACATGC
 CCTGAAAACAAGAAGAGGGTCCATCGCTGTGAGTTAACGGGTGCCGAAAGTTTATACAAAAGCTCCC
 ACTTAAAGGCCACCAGAGGACTCACACAGGTGAGAAGCCTTACAAGTGTCTATGGGAAGGATGCGAGTG
 GCGTTTTGCACGGAGCGATGAGCTACAAGGCACTACAGGAAACACAGGTGCAAAAGCCCTTAAAGTGT
 AACCACTGCGACAGGTGTTTCTCCAGGTCTGACCATCTTGGCTCCATATGAAGAGACATATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204201 representing NM_033563
 Red=Cloning site Green=Tags(s)

MDVLASYSIFQELQLVHDTGYFSALPSLEETWQQTCLLERYLQTEPRRISETFGEDLDCFLHASPPPCI
 EESFRRLDPLLLPVEATICEKSSAVDILLSRDKLLSETCLSLQPTSSSLDSYAVNQAQLNAVTSLTPPS
 SPELSRHLVKTSQTL SAVDGTVTLKLVAKKASLSSVKVGGVAAAAAVTPAGAVKSGQSDSEQGGGADTC
 PENKKRVHRCQFNGCRKVYTKSSHLKAHQRTHTGKPKYKCSWEGCEWRFARSDEL TRHYRKHTGAKPFKC
 NHCDRCFSRSDHLALHMKRHI

TRTRPLE - GFP Tag - V

Restriction Sites:

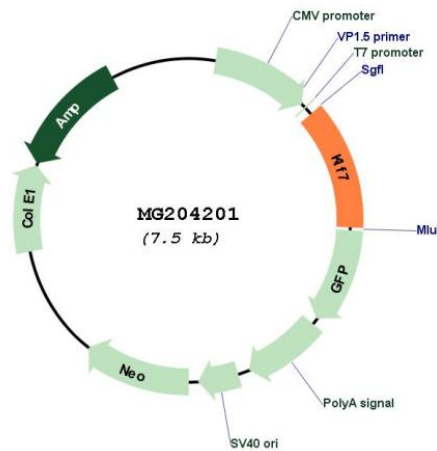
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_033563

ORF Size: 903 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:	<ol style="list-style-type: none">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
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]