

Product datasheet for **MR229890**

Klf10 (NM_001289471) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Klf10 (NM_001289471) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Klf10
Synonyms: A115143; Egral; EGR[a]; Gdnfif; mGIF; Tieg; TIEG-1; Tieg1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229890 representing NM_001289471
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCAACTTCGGCGCTTCTCTCCAGCAAGCTTCGGAGGGGAAAATGGAACATAATTTCTGAAAAGCCCA
 GAGAGGGGATGCATCCCTGGGACAAAGCTGAGCAGAGTACTTTGAAGCGGTGGAAGCGCTCATGTCCAT
 GAGCTGCGACTGGAAGTCTCATTCAAGAAATACCTTGA AACAGGCCTGTCACACCAGTGTCTGATACC
 TCCGAGGATGACAGCTTCTCCAGGGACGCCTGACCTTCAGACAGTCCCAGCATTGTTGTTAACGCCAC
 CTTACAGCCCCTCTGACTTCGAACCCCTCCAAGGGTCAAATCTGACTGCATCAGCGCCATCTACTGGCCA
 CTTCAAATCTTTCTCCGATGCTGCCAAGCCTCCAGGCGCCACTCCTTTCAAAGAGGAGGAAAAGAATCCT
 TTAGCTGCCCCCTCCTCTCCTAAGGCTCAAGCCACCAAGTGTATCCGTCACACAGCTGATGCCAACTGT
 GCAACCACCAAGTCTGCCCCGTGAAAGCAGCTAGCATCCTCAACTATCAGGACAATTCTTTCCGGAGAAG
 AACCCACGGAAATGTTGAGGCTACTCGAAAGAACATACCCTGTGCTGCAGTGTACCAAAACAGATCCAAG
 CCTGAGCCCAGCACAGTGTCCGATGGTGATGAGAAGCGGGCGCTGCACTATATGACTTTGCTGTGCCTT
 CCTCAGAGACAGTAATTTGATAGTCTCAGCCAGCTCCTTCGTCAGTGCAGAAAGTCAAGTGTGCTGTC
 TTCACCTACAGTATCCACTGGGGGAGTGCCACCCCTGCCTGTCTGCAAGATGGTTCCCTTCCCTGCC
 AACAACTCTCTTGTAGCACAGTTGTCCCCAGCACTCCTCCTAGCCAGCCACCAGCTGTCTGCTCACCTG
 TGTGTTTCATGGGCACTCAGGTGCCTGAGGGCACCGTCGTGTTTGTGGTACCCAGCCCGTTGTGCAGAG
 CCCAAGGCTCCAGTGGTGAAGCCAGTGGCACCAGACTGTCTCCATTGCCCTGCTCCTGGATTCTCT
 CCTTCAGCAGCAAGGGTCACTCCTCAGATTGACTCGTCCAGAGTAAGAAGTACATCTGTAGCCACCCAG
 GGTGTGGCAAGACTTACTTTAAAAGTCCCATCTGAAGGCCACGTGAGGACACACAGGGGAAAAACC
 TTTCAGCTGCAGCTGAAAGGCTGTGAAAGGAGGTTTGTCTCGCTCCGATGAAGTGTCCAGACACCGGCGG
 ACACACACAGGAGTCTCTGAGTCTTGCCTCAGCATCTCGCT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229890 representing NM_001289471
 Red=Cloning site Green=Tags(s)

MLNFGASLQQASEGKMEI ISEKPREGMHPWDKAEQSDFEAVEALMSMSCDWKSHFKKYLENRPVTPVSDT
 SEDDSLPLPGTDLQTPAFCLTPPYSPDFEPSQGSNL TASAPSTGHFKSFSDAAKPPGATPFKEEEKNP
 LAAPPLPKAQATSVIRHTADAQLCNHQSCPVKAASILNYQDNSFRRRTHGNEATRKNIPCAAVSPNRSK
 PEPSTVSDGDEKAGAALYDFAVPSSETVICRSQPAPSSPVQKSVLVSSPTVSTGGVPLPVICQMVPLPA
 NNSLVSTVVPSTPPSQPPAVCSPVLFMGTQVPEGTVVVVPQPVVQSPRPPVSPSGTRLSPiAPAGFS
 PSAARVTPQIDSSRVRSHICSHPGCGKTYFKSSHLKAHVRTHTGEKPFSCSWKGCERRFARSDEL SRHRR
 THTGVSESCPQHLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

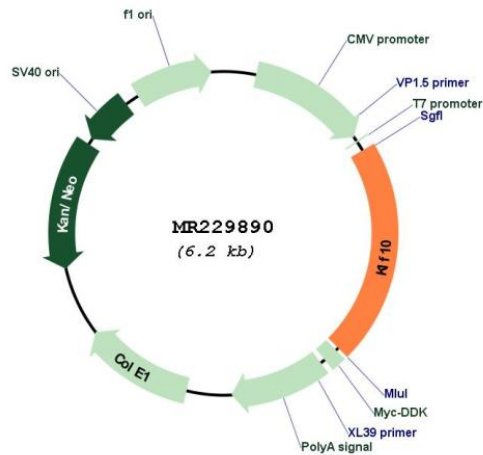
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289471

ORF Size:	1302 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_001289471.1 , NP_001276400.1
RefSeq Size:	2148 bp
RefSeq ORF:	1305 bp
Locus ID:	21847
Cytogenetics:	15 B3.1
MW:	46.9 kDa
Gene Summary:	Transcriptional repressor which binds to the consensus sequence 5'-GGTGTG-3'. May play a role in the cell cycle regulation (By similarity). Plays a role in the regulation of the circadian clock; binds to the GC box sequence in the promoter of the core clock component ARTNL/BMAL1 and represses its transcriptional activity. Regulates the circadian expression of genes involved in lipogenesis, gluconeogenesis, and glycolysis in the liver. Represses the expression of PCK2, a rate-limiting step enzyme of gluconeogenesis.[UniProtKB/Swiss-Prot Function]