

Product datasheet for MC227679

Klf10 (NM_001289471) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Klf10 (NM_001289471) Mouse Untagged Clone
Tag: Tag Free
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
Fully Sequenced ORF: >MC227679 representing NM_001289471
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCAACTTCGGCGCTTCTCTCCAGCAAGCTTCGGAGGGGAAAATGGAATAATTTCTGAAAAGCCCA
 GAGAGGGGATGCATCCCTGGGACAAAGCTGAGCAGAGTACTTTGAAGCGGTGGAAGCGCTCATGTCCAT
 GAGCTCGACTGGAAGTCTCATTCAAGAAATACCTTGAACAGGCCTGTCACACCAGTGTCTGATACC
 TCCGAGGATGACAGCTTCTCCAGGGACGCCTGACCTTCAGACAGTCCCAGCATTGTTGTTAACGCCAC
 CTTACAGCCCCTCTGACTTCGAACCCCTCCAAGGGTCAAATCTGACTGCATCAGCGCCATCTACTGGCCA
 CTTCAAATCTTTCTCCGATGCTGCCAAGCCTCCAGGCGCCACTCCTTTCAAAGAGGAGGAAAAGAATCCT
 TTAGCTGCCCCCTCTCTCCTAAGGCTCAAGCCACCAAGTGCATCCGTCACACAGCTGATGCCAACTGT
 GCAACCACCAAGTCTGCCCCGTGAAAGCAGCTAGCATCCTCAACTATCAGGACAATTCTTTCCGGAGAAG
 AACCCACGGAAATGTTGAGGCTACTCGAAAGAACATACCCTGTGCTGCAGTGTACCAAAACAGATCCAAG
 CCTGAGCCCAGCACAGTGTCCGATGGTGATGAGAAGCGGGCGCTGCACTATATGACTTTGCTGTGCCTT
 CCTCAGAGACAGTAATTTGTAGTCTCAGCCAGCTCCTTCGTCACAGTGCAGAAAGTCACTGCTGTC
 TTCACCTACAGTATCCACTGGGGGAGTGCCACCCCTGCCTGTCTGCAAGATGGTTCCCTTCCCTGCC
 AACAACTCTCTTGTAGCACAGTTGTCCCAGCACTCCTCCTAGCCAGCCACCAGCTGTCTGCTCACCTG
 TGTGTTTCATGGGCACTCAGGTGCCTGAGGGCACCGTCGTGTTTGTGGTACCCAGCCCGTTGTGCAGAG
 CCCAAGGCCTCCAGTGGTGAAGCCAGTGGCACCAGACTGTCTCCATTGCCCTGCTCTGGATTCTCT
 CCTTCAGCAGCAAGGGTCACTCCTCAGATTGACTCGTCCAGAGTAAGAAGTACATCTGTAGCCACCCAG
 GGTGTGGCAAGACTTACTTTAAAAGTCCCATCTGAAGGCCACGTGAGGACACACAGGGGAAAAACC
 TTTGAGCTGCAGCTGAAAGGCTGTGAAAGGAGGTTTGTCTCGCTCCGATGAACTGTCCAGACCCGGCGG
 ACACACACAGGAGTCTCTGAGTCTGCCCCTCAGCATCTCGCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001289471
Insert Size:	1305 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001289471.1</u> , <u>NP_001276400.1</u>
RefSeq Size:	2148 bp
RefSeq ORF:	1305 bp
Locus ID:	21847
Cytogenetics:	15 B3.1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR and 3' coding region compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>