

Product datasheet for **MC200029**

Klf10 (NM_013692) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klf10 (NM_013692) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Klf10
Synonyms:	AI115143; Egral; EGR[a]; Gdnfif; mGIF; Tieg; TIEG-1; Tieg1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003316 sequence for NM_013692
 GGCTAACTAAGCAGCCAGCAGCCAGGCAGCTCGCGACCTGCGGCCAGGCAGCCAACCATGCTCAACTTCG
 GCGCTTCTCTCCAGCAAGCTTCGGAGGGGAAAATGGAACATAATTTCTGAAAAGCCAGAGAGGGGATGCA
 TCCCTGGGACAAAGCTGAGCAGAGTGACTTTGAAGCGGTGGAAGCGCTCATGTCCATGAGCTGCGACTGG
 AAGTCTCATTTCAAGAAATACCTTGA AACACAGGCTGTACACCAAGTGTCTGATACCTCCGAGGATGACA
 GCTTGTCTCCAGGGACGCTGACCTTACAGACAGTCCCAGCATTTTGTTTAACGCCACCTTACAGCCCCTC
 TGACTCGAACCCCTCCCAAGGGTCAAATCTGACTGCATCAGCGCCATCTACTGGCCACTTCAAATCTTTC
 TCCGATGCTGCCAAGCCTCCAGGCGCCACTCCTTTCAAAGAGGAGGAAAAGAATCCTTTAGCTGCCCTC
 CTCTTCTAAGGCTCAAGCCACCAAGTGTATCCGTACACAGCTGATGCCCAACTGTGCAACCACCAAGT
 CTGCCCGGTGAAAGCAGCTAGCATCCTCAACTATCAGGACAATTTTCCGGAGAAGAACCACGGAAAT
 GTTGAGGCTACTCGAAAGAACATACCCTGTGCTGCAGTGTACCAAAACAGATCCAAGCCTGAGCCCAGCA
 CAGTGTCCGATGGTGTGAGAAGGCGGGCGCTGCACTATATGACTTTGCTGTGCCTTCTCAGAGACAGT
 AATTTGTAGGTCTCAGCCAGCTCCTTCGTCAGTGCAGAAAGTCAAGTGTGTTTACCTACAGTA
 TCCACTGGGGAGTGCCACCCCTGCCTGTATCTGCCAGATGGTCCCCTTCTGCCAACAACTCTCTTG
 TTAGCACAGTTGTCCCGCAGCTCCTCCTAGCCAGCCACCAAGTGTCTGCTCACCTGTGTGTTTCATGGG
 CACTCAGGTGCCTGAGGGCACCGTCGTGTTTGTGGTACCCAGCCGCTTGTGCAGAGCCCAAGGCCCTCCA
 GTGGTGAGCCCCAGTGGCACCAGACTGTCTCCATTGCCCTGTCTCTGATTCTCTCTCAGCAGCAA
 GGGTCACTCCTCAGATTGACTCGTCCAGAGTAAGAAGTCAATCTGTAGCCACCCAGGGTGTGGCAAGAC
 TTACTTTAAAAGTTCCCATCTGAAGGCCACGTGAGGACACACAGGGGAAAAACCTTTTCCAGCTGCAGC
 TGGAAAGGCTGTGAAAGGAGGTTTGTCTCGCTCCGATGAACTGTCCAGACACCGCGGACACACAGGTG
 AGAAGAAGTTGCCTGTCCCATGTGTGACCGTCGGTTTATGAGGAGCGACCATTTAACCAAGCATGCCCG
 ACGCCACCTATCAGCCAAGAAGCTGCCAACTGGCAAATGGAAGTTAGCAAGTTAAATGACATTTGCTCTG
 CCTCCGACCCCTGCTTCCGCACAGTGCAGGCGAGAAGATGGAGACGCAGAATAAACTTTGGTCAGAGTCA
 GGAGCCAGTGATGGTGTCAAGTGTCTGCAAGGCTGTGGCCCTCCAAAAGGGCCATAAAGTAGAAGCCCT
 GGCTGGGGGAGGCCCGCTGGGTGAAATGACAAGAAGTGCTTACGCCAGGCAGGTACAGAGGACA
 GGGCTCAGTTCTTACCACAGAGAGAGAGGAGAACCCTTTTATTCTCCCTTATTTTAGTCTGAAAGTTT
 CGGCTGAGGTGAGCGCAGCACAGGTTTTGAATCACATACACATTGGGGACTTTGTTTTTCCATTATAC
 TTGAGACCAGCTTTCAGTGTGATTCTTCAAAGGATTGGTTTCAAGAATATAGAGGCTGGAAATACGG
 TACAGAAATGGAGCTAGAAAATGAGTTTGTGTTACACAGAGATGCATCTCTCCTAGATTATCTGTG
 TCTTATTCCTAGTCTTCCAGTCAAATCCGTGGATGTAGCTAAGTATATCTAAAACCTATTTTCCACTA
 TTGTTGGTATTTGAAGTTGAACAGCTGTACATTGCTGTGGGGAGCCAAAGGATTGGAACCCTCATTAA
 TTAATTGCTTGGAAATGCAGCTAAAATCTTCTTTGGCATTTTGTGTTTGAAGTTTAGGCATTTTACTCT
 ACTTTAGATTTTAGTTTGCCTTGCAGTTTTTGTGTAGATTTGAAAATTGTATACCAATGTGTTTTCTGTA
 GGCTTAAAATACACTGCACTTTGTTTAGAAAAAATCTGGAGATGAAAATATGTATTATAAAGAAGAGAT
 GTCAAGAATTTGAGATAACTCCTTGAGAAAGTTGGCTTTATGTCATCAGCAAAGGACACTTAACGTCAAG
 CATACACTGTGGTTTTTTTGTTTTTTTTGTTTTTTTTTTCAAATTAGAAAAGTTTAAATGACCGTTACAGAT
 GGACAGTGTCTTTTTATTTATAGGAGTTTTTTCAGGATGTCAGAGTAGATAGGTAGGAAAATTGTTATTAG
 AACATTCGCTTACCTTGAAGGATGTTAATGTGGTCATGTTCTTAGCACCACAGTGTCTGGGCATCT
 GGGAAACTCCGAGACTTTTTTAAAGTGCATGATGTGATCACACCTGCAGTTTGGGGCATCGAATCCAGG
 GCCTTGATGCTTCTGTAAAGAGCTCTCATCGCTGACCTGTATCCCCGCAAGAGCAATGACTTTTGCTA
 ACAGTATTTCTTTCTGTGTAAGTGGACAGATGATACACTTGGTCGCAAGGTAATTTCAAATC
 CACAGTGA AACCTCACCACACTTTCCATTTAAACTATTTCCATATCTCAGAGGTTTCTGACATGCAAA
 CTTGAACCCTTGAAGAAGAGTTTTTCTTAAAAATATAAAAAATCACGAGTTACAATTTGCACAATATTT
 TTTGTTGAACCTTATACCTTGTTTACAATAAAGACTTTTCTTTGGTATAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_013692
Insert Size: 1440 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:	<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:	BC003316 , AAH03316
RefSeq Size:	3003 bp
RefSeq ORF:	1440 bp
Locus ID:	21847
UniProt ID:	O89091
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 (1) encodes the longest 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>