

Product datasheet for **MR219894**

Lctl (NM_145835) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lctl (NM_145835) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lctl
Synonyms:	E130104I05Rik; KLPH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219894 representing NM_145835
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCCAGTGTGGGTATCATCTTGGGTGGATCCTGTGGTCCAGGGTAGGGACTGCCTGGAGAG
 GACCCCAAGAAGAGGCATCCTTCTACTATGGAACCTTCCACCCGGCTTCTCCTGGGGCGTGGGCAGTTC
 TGCTACACAGACAGAAGGTGCATGGGACAGGATGGGAAAGGGCCAGCATCTGGGATGCCTTCACACAT
 GGCAGAAAGAACAGGTGCTAGGAGGTGACACAGCAGACACAGCCTGTGACAGCTACTATAAAGTTCAGG
 AGGACATTGCCCTGCTGAAGGAACAAGTCAGCCACTACCGATTTTCCCTGTCTTGGCCGCGGCTCCT
 GCCCACGGGGTTCAGAGCTGAACAGGTGAACAAGAGAGGAATCAAATTCTACAGCGATTTTCATTGACGCT
 CTCTGAAGAGCAACATACCCCGTTGTGACCTTGACCACTGGGACCTACCACAGATGCTCCAGGTAG
 CATAACGGCGGTGGCAGAATGTGAGTATGACCCGATACTTCAGTACTATGCTGACCTATGCTTTGAGGT
 CTTTGGGACCGAGTGAAGCATTGGCTCACATTCAGTGATCCTCGGACAATGGTAGAAAAAGTTATGAG
 ACCGGTCTCCACGCACAGGCCTGAGGCTCCAGGGCACTGGCCTATATGTGGCTGCACACCATATCATTA
 AGGCCACGCCAGGCTTGGCATTCTTATAATAACACGTGGCGCAGCAAACAGCAGCGCCTAGTAGGGAT
 CTCCTGAACTGTGACTGGGGGAACTGTGGACATCGACAACCCGACGATATTGAGGCTGCTGAGCGA
 TACCTACAGTTCTGTCTCGGTTGGTTTGGCAACCTATTTACGCTGGTACTACCCCAAGTCATGAAAAG
 ACCACATTGGAACAAAGAGTGGCAGCAAGGCCTGGAGATGTCGAGGTTGCCACGTTCTCCCTGCAGGA
 GAAGAGCTACCTAAAGGCATCTGACTTCTGGGCTGGGCCATTTTACCCTCGATACATCACTCAA
 AGGAAATATCCCTCCACAGGGGCCAGCTACCAGAAATGACCGTACTTAGTGGAGCTTGTGGACCCCA
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 AGATAAATATGGATTCTACTATGTTGAATCAATGTGAGAAACAAGCCTCGCTATCCCAAGGCTTCTGTG
 CAGTATTACAAGGAGATCATCACAGCCAGTGGTTCCCAAACCCACAAGAGGTGGAAAGTTGGCGTCTCA
 AAGCCTTGAAACTTGTCCATCAACAACCAGATGCTTCCACAGAGCCCTTGTAGGCACATGCACGT
 GGCTTCAGAGATTGTTGGTCCACAGTCTGCGCCCTCTCCATCTCACTGCTGCCCTGATGCTGACACTT
 CTCTCAGGAGACGTGGC

**ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR219894 representing NM_145835
 Red=Cloning site Green=Tags(s)

MKPVWVILGWILLVPRVGTAWRGPPEEASFYFGTFFPGFSWVGSSAYQTEGAWDEDGKGPSIWDAFTH
 GRKEQVLGGDTADTACDSYYKVQEDIALLKELQVSHYRFSLSWPRLPTGVRAEQVNRGKIFYSDFIDA
 LLKSNITPVVTLHHWDLQMLQVAYGGWQNVSMTRYFSDYADLCFEVFGDRVKHWLTFSDPRTMVEKGYE
 TGLHAPGLRLQGTGLYVAHHIIKAHAQAWHSYNNNTWRSKQHGLVGISLNCWGEPPVDIDNPDDIEAAER
 YLQFCLGWANPIYAGDYQVMKDHIGTKSAEQGLEMSRLPTFSLQEKSYLKGTSDFLGLGHFTTRYITQ
 RKYPSHQGPSYQNRDLVELVDPNWPMEGSPWLYSVPWGFRRLLNFAQTQYGDPPYVVTESGAPQKLHCT
 QFCDEWRIQYLKGYINEMLKAIKDGVDIKGYTSWSLLDKFEWEKGYADKYGFYFVFNVRNPKPRYKASV
 QYYKEIITASGFNPNQEVESWRLKALETCSINNQLATEPLLRHMHVASEIVVPTVCALSILTAALMLTL
 LLRRRG

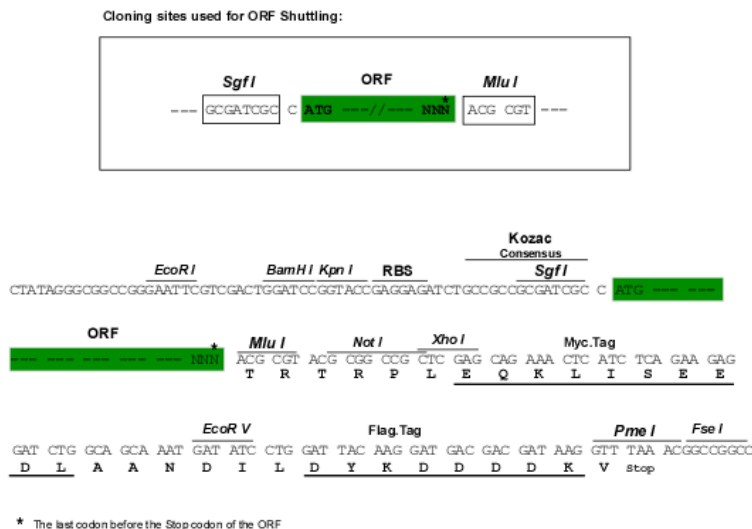
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9029_c10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_145835

ORF Size: 1698 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_145835.2](#), [NP_665834.1](#)

RefSeq Size: 2187 bp

RefSeq ORF: 1701 bp

Locus ID: 235435

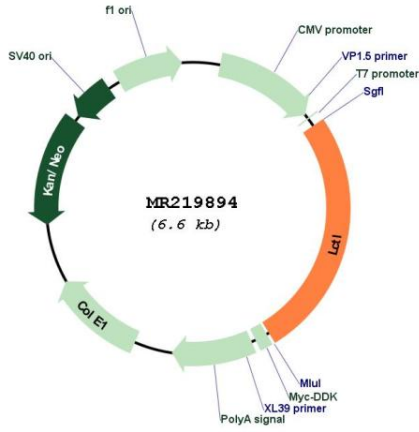
UniProt ID: [Q8K1F9](#)

Cytogenetics: 9 C

MW: 65.3 kDa

Gene Summary: Plays a role in formation of the lens suture in the eye, which is important for normal optical properties of the lens.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219894