

## Product datasheet for MR205613

### Lmcd1 (NM\_144799) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lmcd1 (NM\_144799) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Lmcd1  
**Synonyms:** AW455500; AW553074; dyxin  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR205613 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAAAGTGGCTAAGGACCTCAACCCTGGAGTGCAAAGATGTCCTTGGCCAGCAGCAGTCCGCAA  
GAGGAGTGGCTTGTCTGCGGTGCAAGGGAATGTGCTCCGGCTTCGAGCCTCACTCGTGGAGGAAAATATG  
CAAGTCTGTAAATGCAGCCAGGAGGAGCACTGCCTAAGCTCTGACCTGGACGATGATCGGAAAATTGGG  
CGCCTGCTGATGGACTCCAAGTATGCCACTCTCACCGCCAGGGTAAAAGGCGGAGACGGCATCCGCATCT  
ATAAGAGGAACCGCATGATCATGACCAACCCCATCGCCACGGCAAAGACCCACCTTTGACACTATCAC  
CTACGAGTGGGCTCCCCAGGAGTACCCAGAAACTGGGCCTGCAGTACATGGAACCTATCCCCAAGGAG  
AGGCAGCCTGTGACAGGCACTGAGGGTGCCTCTACCGCCGACGCCAGCTCATGCATCAGCTCCCTATCT  
ATGACCAGGACCCCTCTCGATGCCGTGGACTTGTGGAGAATGAGCTGAAAGCTATGGAGGAGTTCGTCAA  
GCACTACAAGAGCGAGGCCCTTGGGGTGGGCGAGGTGGCCCTCCAGGGCAGGGAGGCTTGCCAAAGGAA  
GAAAACAAGACACAGGAAAAGCCAGAGGGCACAGAGACCACTGCCCAACCACCAATGGCAGCCTGGGTG  
ATCCATCAAAGAAGTGAATACGTCTGTGAGCTCTGCAAGGGAGCAGCCCCAGTTGACAGCCCTGTGGT  
CTACGCTGACAGGGCTGGATACAGCAAACAGTGGCACCCACGTGCTTTTCAGTGTATCAAGTGCTCAGAG  
CCACTGGTGGACCTCATCTACTTCTGGAAGGATGGTGCACCCTGGTGGCCGCCACTACTGTGAGAGT  
TGCGGCCCGGTGCTCAGGCTGTGATGAGATCATCTTCTCAGAAGACTACCAGCGTGTGGAAGACCTGGC  
CTGGCATCGGAAGCACTTCATTTGCGAGGGCTGTGAGCAGCTGTGAGCGGCCGTGCGTACATCGTCACC  
AAGGGTACGCTCCTGTGCCCCACATGCAGCAAGTCAAACGCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205613 protein sequence  
 Red=Cloning site Green=Tags(s)

MAKVAKDLNPGVQKMSLGQQQSARGVACLRCCKGMCSEFPHSWRKICKSCKCSQEEHCLSSDLDDDRKIG  
 RLLMDSKYATLTARVKGDDGIRIYKRNRMIMTNPATGKDPTFDITTYEWAPPVGTQKLGQYMEIIPKE  
 RQPVVTGTEGALYRRRQLMHQLPIYDQDPSRCRGLVENELKAMEEFVKHYKSEALGVGEVALPGQGLPKE  
 ENKTQEKPEGTETTAPTNGSLGDPKEVEYVCELCKGAAPVDSPPVYADRAGYSKQWHPTCFQCICKSE  
 PLVDLIYFWKDGAPWCGRHYCESVRPRCSGCDEIIFSEDYQRVEDLAWHRKHFICEGCEQLLSGRAYIVT  
 KGQLLCPTCSKSKRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_144799

**ORF Size:** 1098 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\\_144799.2](#)

**RefSeq Size:** 1742 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 30937

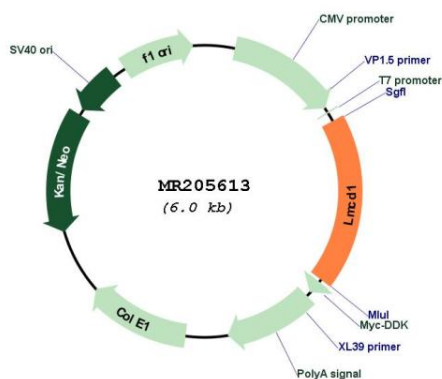
**UniProt ID:** [Q8VEE1](#)

**Cytogenetics:** 6 E3

**MW:** 41 kDa

**Gene Summary:** Transcriptional cofactor that restricts GATA6 function by inhibiting DNA-binding, resulting in repression of GATA6 transcriptional activation of downstream target genes. Represses GATA6-mediated trans activation of lung- and cardiac tissue-specific promoters. Inhibits DNA-binding by GATA4 and GATA1 to the cTNC promoter. Plays a critical role in the development of cardiac hypertrophy via activation of calcineurin/nuclear factor of activated T-cells signaling pathway.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205613