

Product datasheet for **MG205613**

Lmcd1 (NM_144799) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lmcd1 (NM_144799) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lmcd1
Synonyms:	AW455500; AW553074; dyxin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205613 representing NM_144799 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAAGTGGCTAAGGACCTCAACCCTGGAGTGCAAAGATGTCCTTGGCCAGCAGCAGTCCGCAA
GAGGAGTGGCTTGTCTGCGGTGCAAGGGAATGTGCTCCGGCTTCGAGCCTCACTCGTGGAGGAAAATATG
CAAGTCTTGTAATGCAGCCAGGAGGAGCACTGCCTAAGCTCTGACCTGGACGATGATCGGAAAATTGGG
CGCCTGCTGATGGACTCCAAGTATGCCACTCTCACCGCCAGGGTAAAAGGCGGAGACGGCATCCGCATCT
ATAAGAGGAACCGCATGATCATGACCAACCCCATCGCCACGGCAAAGACCCACCTTTGACACTATCAC
CTACGAGTGGGCTCCCCAGGAGTACCCAGAAACTGGGCCTGCAGTACATGGAACCTATCCCCAAGGAG
AGGCAGCCTGTGACAGGCACTGAGGGTGCCTCTACCGCCGACGCCAGCTCATGCATCAGCTCCCTATCT
ATGACCAGGACCCCTCTCGATGCCGTGGACTTGTGGAGAATGAGCTGAAAGCTATGGAGGAGTTCGTCAA
GCACTACAAGAGCGAGGCCCTTGGGGTGGGCGAGGTGGCCCTCCAGGGCAGGGAGGCTTGCCTAAGGAA
GAAAACAAGACACAGGAAAAGCCAGAGGGCACAGAGCACTGCCCAACCAATGGCAGCCTGGGTG
ATCCATCAAAGAAGTGAATACGTCTGTGAGCTCTGCAAGGGAGCAGCCCCAGTTGACAGCCCTGTGGT
CTACGCTGACAGGGCTGGATACAGCAAACAGTGGCACCCACGTGCTTTTCAGTGTATCAAGTGCTCAGAG
CCACTGGTGGACCTCATCTACTTCTGGAAGGATGGTGCACCCTGGTGGCCGCCACTACTGTGAGAGTG
TGCGGCCCGGTGCTCAGGCTGTGATGAGATCATCTTCTCAGAAGACTACCAGCGTGTGGAAGACCTGGC
CTGGCATCGGAAGCACTTCATTTGCGAGGGCTGTGAGCAGCTGCTGAGCGGCCGTGCGTACATCGTCACC
AAGGGTACGCTCCTGTGCCCCACATGCAGCAAGTCAAACGCTCC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205613 representing NM_144799
 Red=Cloning site Green=Tags(s)

MAKVAKDLNPGVQKMSLGQQSARGVAQLRCKGMCSGFEPHSWRKICKSCKCSQEEHCLSSDLDDDRKIG
 RLLMDSKYATLTARVKGDDGIRIYKRNRMIMTNPIATGKDPTFDITITYEWAPPVGTQKLGQYMEIIPKE
 RQPVVTGTEGALYRRRQLMHQLPIYDQDPSRCRGLVENELKAMEEFVKHYKSEALGVGEVALPGQGLPKE
 ENKTQEKPEGTETTAPTTNGSLGDPskeVEYVCELCKGAAPVDSPPVYADRAGYSKQWHPTCFQCICKSE
 PLVDLIYFWKDGAPWCGRHYCESVPRPCSGCDEIIFSEDYQRVEDLAWHRKHFICEGCEQLLSGRAYIVT
 KGQLLCPTCSKSKRS

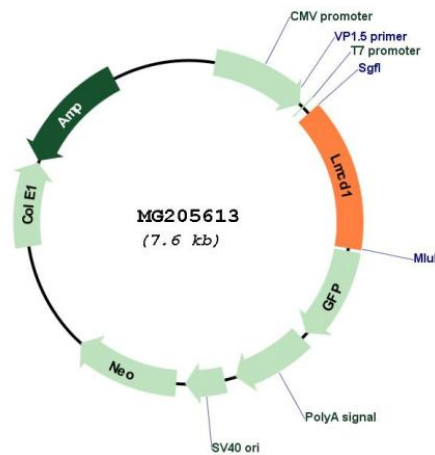
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144799

ORF Size:	1095 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_144799.2
RefSeq Size:	1695 bp
RefSeq ORF:	1098 bp
Locus ID:	30937
UniProt ID:	Q8VEE1
Cytogenetics:	6 E3
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]