

Product datasheet for **MC221900**

L3mbtl1 (NM_001081338) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L3mbtl1 (NM_001081338) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	L3mbtl1
Synonyms:	C630004G01; L3mbtl; mKIAA0681
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221900 representing NM_001081338
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGGGCACACTGACATGGAGATACTAAGGACAGTAAAAGGGTCTTCCACAGGGGAGGTCAACGTGC
 ACCTGGTGGCCAGAGACAGCGCAGGTCCCCACCCTCAGCTGCCTACAACCGCCTTCAATTATTCCTACCAA
 TGCAGCTACGCTTGGTCTGCCTAGCACTGCCCTGGATGTGCCCTATCCCCGGGAGCCAGTCCACGTGGGT
 GCCCTGGAGCGGGTGGCTGGCAGCGAACCCGTAACAGCTACTATTCTGCCACAGCTAAGCACTGGAACGG
 GGACCAATAGCACAGTCAAGGCTTCTGGATTGGACTGGCGTTTCTGCACCTTACCTGGTAGCGGCATGCG
 GTTCCGGATAAATGAGTACGCGCCACTGAACATGATAGGAGTGGAGCGACCACGAAGCCCGGAGCAGCGA
 CATGAGGGTGGCATGGCCAGGAGAGATGCGGGCATCCAGCACCTGATGTTACCAGGACCGTCAAGATA
 TAACTTCTCTGGAACCCCGGTAGATGCGAGTTCTCTGCAAGTCCAGGCTTGTGGCCTCAACAAAGTAG
 TGGCCTAGACGTTGGTTCATCGGGAGACCGATGCTCTCAGCCTTCCAGAAGCGGTCACTATAGTAGAG
 AACTCAGGCTGTACCATCGCTTCTGAGCTCTGAAACCCATGAAAAAGAGGAAACATAAGGAGTATCAGA
 GCCCATCAGAGGAGTCAAGAGCCGAGGCTGTGAAGCAAGGAGAAGGAAAAGACGCAGAGCGAGAGCCAC
 CCCTAGCACCCCGGAGAATGAAGAGTGGAGCAGAAGCCAGCTGGTGTCCAGTGAGAAGAAGGACGGCTGG
 TCCTGGGAGTCCCTACCTGGAGGAGCAGAAGGCCGTACAGCCCCAGTTAGCCTCTTCCAGGACTCCCAGG
 CAGTCAACCATAACAAGAATGGCTTCAAACCTGGGCATGAAGCTGGAAGGCATTGACCCCCAACCCCGTC
 AATGTACTTATCCTCACTGTGGCTGAGGTGTGTGGCTACCGCTGCGCTGCACCTTGTATGGCTACTCT
 GAGTGCCACGACTTCTGGTCAATGCCAACTCCCCTGATATTATCCCGCTGGCTGGTGGTGGAGAAGACTG
 GACAAAGCTGCAGCTTCCCAAAGTTACAAGGAAGAGGAGTTCAGCTGGAGCCAGTACCTGCGCCAGCAGC
 GAAAGCTCAGGCAGCCCCAAGCACCTGTTTGTAAAGCCAGAGCCACAGTACTCCACCTGTGGGCTTCCAG
 GTGGGCATGAAGCTGGAAGCTGTGGACCGCATGAACCTTCCCTCGTGTGTGGCCAGTGTGACCGATG
 TGGTGGACAGTCGCTTCTGGTGCACCTTGTGACTGGGGCGATACTTACGACTACTGGTGTGATCCAG
 CAGCCCCATACCCAGTAGGCTGGTCCAGAAGCAAGGAAAGCCGCTCACCCCTCCACAAGACTAC
 CCAGACCCTGACAGCTTCTGCTGGGAGAAATATCTAGAAGAACTGGGACCTCGGCTGTGCCAATTGGG
 CCTTCAAAGTGCACCCCTCACAGCTTCTGGTGAACATGAAGCTGGAGGCTGTAGACCCGCGAAACCC
 AGCACTGATCCGGTAGCCAGTGTGAAGATGTGGAGGATCATCGGATAAAGCTCCACTTGTATGGCTGG
 AGTCACAATTATGATTTCTGGATTGATGCCGATCACCCAGACATCCACCCTGCAGGCTGGTGTCCAAGA
 CAGGACATCCCCTGGAGCCTCCTCTCCGGCCAGAGAGTCCAGCTCTGTCTCCCCTGGGGGATGCCCCCT
 TCTCAGCCACAGGAGCCACCCACACAAGACCTCCAAATATAACTTTCACCACCGAAAGTGCCCCACT
 CCTGGCTGTGACGGCTCCGGCCATGCACTGGCAAGTTCACAGCTCACCATTTGCCTCTCTGGCTGCCCGC
 TGGCCGAGAAAAACCAGAGCCGGCTGAAAGCGGAACTGTCCGACTCGGAGACCGCAGCCAGGAAGAAGAA
 CCCGTCTAATTTGTCCCAAGGAAAAAGCCTCGCCATCAAGGCCGGATTGGACGCCCTCCAAAGTATCGC
 AAGATCCAGAAGAAGATCTCCAAGCCCTCCCTCCAGTGTGGTACACCAGTCCCTTTCATGTCCACCT
 TGCCGACCCACGCTGATCGCCACTCTCTGTGTGCTGGGAGCAACTGCAAGCTGTTGCCAGGAGTGGC
 GGGCATCTCAGCCTCCACAGTCTCTAAGTGGACCATTGAAGAGGTCTTTGGCTTCGTTGACACTTGACG
 GGCTCTGAGGACCAAGCGCCCTTCAAAGACGAGATGATTGACGGCGAGGCCCTTCTTTTGTGACAC
 AGGCGGACATTGTGAAGATCATGAGTGTCAAGCTAGGCCAGCCTGAAGATCTATAACGCCATTTCAT
 GTTCAAAAACACTGACGATGCCTTAAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001081338
Insert Size: 2481 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:	NM_001081338.1 , NP_001074807.1
RefSeq Size:	2733 bp
RefSeq ORF:	2481 bp
Locus ID:	241764
UniProt ID:	A2A5N8
Cytogenetics:	2 H2
Gene Summary:	Polycomb group (PcG) protein that specifically recognizes and binds mono- and dimethyllysine residues on target proteins, thereby acting as a 'reader' of a network of post-translational modifications. PcG proteins maintain the transcriptionally repressive state of genes: acts as a chromatin compaction factor by recognizing and binding mono- and dimethylated histone H1b/HIST1H1E at 'Lys-26' (H1bK26me1 and H1bK26me2) and histone H4 at 'Lys-20' (H4K20me1 and H4K20me2), leading to condense chromatin and repress transcription. Recognizes and binds p53/TP53 monomethylated at 'Lys-382', leading to repress p53/TP53-target genes. Also recognizes and binds RB1/RB monomethylated at 'Lys-860'. Participates in the ETV6-mediated repression. Probably plays a role in cell proliferation. Overexpression induces multinucleated cells, suggesting that it is required to accomplish normal mitosis (By similarity).[UniProtKB/Swiss-Prot Function]