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Product datasheet for MR230958

L3mbtl2 (NM_001289712) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L3mbtl2 (NM_001289712) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	L3mbtl2
Synonyms:	4732493N06Rik; M4mbt
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR230958 representing NM_001289712
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAAACCGCGGGGCACTGAGGAGGCGCCATCTTCAGAGCCAATGGAAGAGGAGGAGGAAGATGACT
TGGATCTCTTTGGGGGCTACGACAGCTTCCGGAGTTACAACAGCAGTGCGGGCAGCGAGAGCAGCTCCTA
CTTGGAGGAGTCAAGTGAAGCAGAGAACGAGGACCGGGAAGCAGGGGAGCTGCCCACCTCACCTCTCCAT
CTGTTCAGCTCTGCGAACAACCGCTCCTTGGATGGAAGTGGTTCTGAGCCAGCTGTCTGTGAGATGTGTG
GTATCGTGGGCACAAGAGAAGCTTTCTTCTCAAAGACCAAGAGGTTCTGCAGCGTCTCGTGTTCCAGGAG
CTACTCCTCCAACTCCAAGAAAGCCAGTATCCTGGCTAGACTACAGGGAAAGCCACCCACCAAGAAAGCC
AAAGTCCTGCACAAGGCAGCCTGGTCTGCCAAAATTGGAGCCTTTCTCCATGCCCAGGGAACAGGACAAC
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CTGTCATCCAGGCAGCTGGGTACCGGGTGCTGCTCCGATATGAAGGCTTTGAAAATGACGCCAGTCATGA
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TTGAGGCTTTGGGGGTCTCGGAACCAGTTCCTGATGACAGTCGCCCAGTCCACAGCTGCCTCTTCCCATT
GAGAGCATCAAGCAGGAGAGGAACAACTGAGACTTCCCTGGCATCAGCCTGGACCCTAACTGAAGCCAAG
CATGGAGCAGAGAGGAGGCCCGGCTTTACTGCTGTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

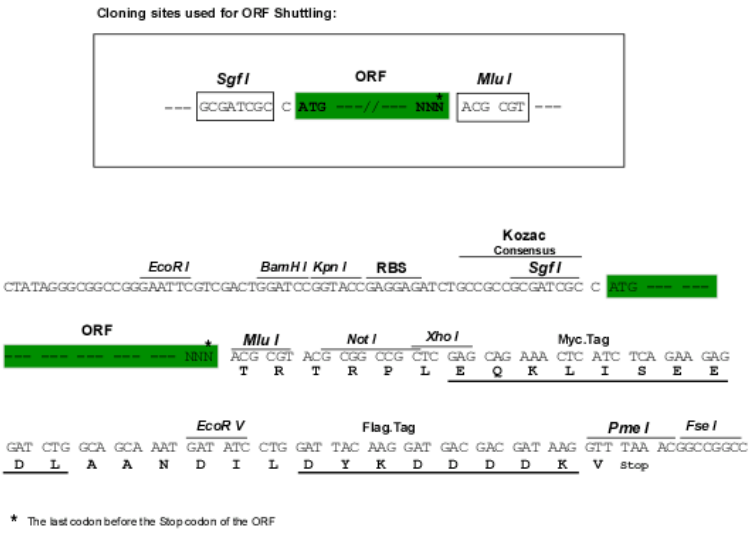
>MR230958 representing NM_001289712
Red=Cloning site Green=Tags(s)

MEKPRGTEEAPSSEPMEEEEEDDLDLFGGYDSFRSYNSSAGSESSSYLEESSEAENEDREAGELPTSPLH
LFSSANNRSLDGSGSEPAVCEMCGIVGTREAFFSKTKRFCSVSCSRSYSSNSKKASILARLQGKPPTKKA
KVLHKAAWSAKIGAFLHAQGTGQLADGTPTGQDALVLGFDWGKFLKDHSYKAAPVSCFKHVPLYDQWEDV
MKGMKVEVLNSDAVLPSRVYWIATVIQAAGYRVLLRYEGFENDASHDFWCNLGTVDVHPIGWCAINSKIL
VPPRTIHAKFTDWKSYLMKRLVGSRTLPADFHIKMVESMKYPFRQGMRLEVVDKTQVSRTRMAVVDTVIG
GRLRLLYEDGDSDDDFWCHMWSPLIHPVGWSRRVGHGIKMSDRRCDMSHHPTFRKIYCDAVPYLFKKVRA
VYTEGGWFEEGMKLEAIDPLNLGSICVATICKVLLDGYLMICVDGGPSTDGSDWFCYHASSHAIFPATFC
QKNDIELTPPKGYETQPFAWETYLEKTKSKAAPARLFNMDCPNHGFKVGMKLEAVDLMEPRLICVATVKR
VVHRLLSIHFDGWDNEYDQWVDCESPDIYPVGWCELTGYQLQPPVSAEPNTPQKGKDTTKKKKKQFGKKR
KRIPSAKTRPLRQGSKKPLLEDNLEALGVSEPVPDDSRPVHSCLFPLRASSRRGTTETSLASAWTLTEAK
HGAERRPGFTAVQ

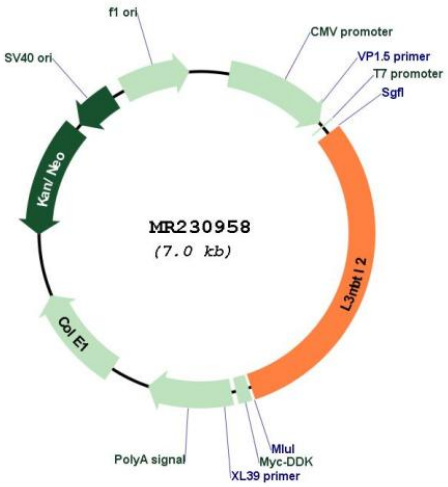
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001289712
ORF Size:	2139 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_001289712.1, NP_001276641.1
RefSeq Size:	3435 bp
RefSeq ORF:	2142 bp

Locus ID:	214669
Cytogenetics:	15 E1
MW:	80.4 kDa
Gene Summary:	Putative Polycomb group (PcG) protein. PcG proteins maintain the transcriptionally repressive state of genes, probably via a modification of chromatin, rendering it heritably changed in its expressibility. Its association with a chromatin-remodeling complex suggests that it may contribute to prevent expression of genes that trigger the cell into mitosis. Binds to monomethylated and dimethylated 'Lys-20' on histone H4. Binds histone H3 peptides that are monomethylated or dimethylated on 'Lys-4', 'Lys-9' or 'Lys-27' (By similarity). [UniProtKB/Swiss-Prot Function]