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Product datasheet for MR210143

L3mbtl2 (NM_145993) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L3mbtl2 (NM_145993) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	L3mbtl2
Synonyms:	4732493N06Rik; M4mbt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR210143 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAAACCGCGGGGCACTGAGGAGGCGCCATCTTCAGAGCCAATGGAAGAGGAGGAGGAAGATGACT
TGGATCTCTTTGGGGGCTACGACAGCTTCCGGAGTTACAACAGCAGTGCGGGCAGCGAGAGCAGCTCCTA
CTTGGAGGAGTCAAGTGAAGCAGAGAACGAGGACCGGGAAGCAGGGGAGCTGCCCACCTCACCTCTCCAT
CTGTTCAGCTCTGCGAACAACCGCTCCTTGGATGGAAGTGGTTCTGAGCCAGCTGTCTGTGAGATGTGTG
GTATCGTGGGCACAAGAGAAGCTTTCTTCTCAAAGACCAAGAGGTTCTGCAGCGTCTCGTGTTCCAGGAG
CTACTCCTCCAACTCCAAGAAAGCCAGTATCCTGGCTAGACTACAGGGAAAGCCACCCACCAAGAAAGCC
AAAGTCCTGCACAAGGCAGCCTGGTCTGCCAAAATTGGAGCCTTTCTCCATGCCCAGGGAACAGGACAAC
TAGCAGATGGGACACCCACTGGACAAGATGCTCTGGTCCTGGGCTTCGACTGGGGCAAGTTCCTGAAGGA
TCATAGTTACAAGGCTGCTCCTGTCAGCTGCTTTAAACATGTACCCCTCTATGACCAGTGGGAAGACGTC
ATGAAGGGGATGAAGGTGGAAGTGCTCAACAGCGATGCTGTGCTCCCCAGCCGGGTGTACTGGATCGCCA
CTGTCATCCAGGCAGCTGGGTACCGGGTGCTGCTCCGATATGAAGGCTTTGAAAATGACGCCAGTCATGA
CTTCTGGTGCAACTTGGGAACTGTGGATGTCCACCCCATTGGGTGGTGTGCCATCAACAGCAAGATCCTG
GTACCTCCACGGACCATCCATGCCAAGTTTACTGACTGGAAGAGCTACCTCATGAAGCGGTTGGTGGGTT
CCAGGACACTTCCTGCAGACTTCCATATCAAGATGGTGGAAAGCATGAAGTACCCTTTCCGACAGGGCAT
GCGCTTAGAGGTTGTAGACAAGACTCAGGTGTCACGTACCCGCATGGCCGTGGTGGACACAGTAATCGGG
GGTCGCCTCCGGCTCCTCTATGAGGATGGTGACAGTGATGACGACTTCTGGTGCCATATGTGGAGTCCCC
TGATCCACCCAGTGGGTTGGTCCCGGCGTGTTGGCCACGGCATCAAGATGTCAGACAGACGATGTGACAT
GTCTCATCACCCCACCTTCCGGAAAATCTACTGTGATGCTGTACCTTACCTCTTCAAGAAGGTCCGCGCT
GTCTACACAGAAGGTGGCTGGTTCGAGGAAGGAATGAAACTAGAGGCCATTGACCCTCTGAATCTGGGCA
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CTCCACGGATGGCTCCGATTGGTTCTGCTACCACGCCTCCTCCCATGCCATCTTCCCAGCCACCTTCTGC
CAAAAGAATGACATTGAGCTCACACCCCCAAAAGGGTATGAGACACAGCCTTTTGCCTGGGAGACCTACT
TAGAGAAGACCAAGTCAAAAGCTGCTCCAGCAAGACTCTTTAACATGGACTGCCCCAACCATGGCTTCAA
GGTGGGCATGAAGCTGGAGGCTGTGGACCTGATGGAGCCCCGGCTCATCTGTGTGGCCACCGTGAAGCGG
GTGGTGCATCGGCTCCTCAGCATCCACTTCGACGGCTGGGACAACGAGTATGATCAGTGGGTGGACTGCG
AATCCCCGGACATCTACCCTGTCGGCTGGTGTGAGCTCACCGGCTACCAGCTCCAGCCGCCTGTGTCCGC
AGAACCAAACACACCTCAGAAAGGCAAGGACACCACAAAGAAGAAGAAGAAACAGTTTGGGAAGAAAAGG
AAAAGAATCCCATCAGCCAAGACTCGGCCCCTCAGACAGGGCTCCAAGAAACCCTTACTGGAGGACAACC
TTGAGGCTTTGGGGGTCTCGGAACCAGTTCCTGATGACATTATCGCTGTGTGTGTGAAGGAGGAGCACCA
GGACATTTCCTCGCCTGACAGGTCGCCCAGTCCACAGCTGCCTCTTCCCATTGAGAGCATCAAGCAGGAG
AGGAACAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

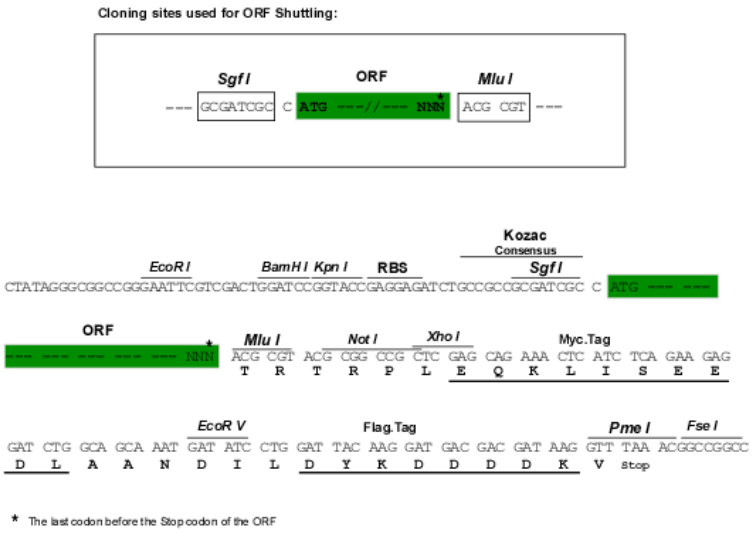
>MR210143 protein sequence
Red=Cloning site Green=Tags(s)

MEKPRGTEEAPSSEPMEEEEEDDLDLFGGYDSFRSYNSSAGSESSSYLEESSEAENEDREAGELPTSPLH
LFSSANNRSLDGSGSEPAVCEMCGIVGTREAFFSKTKRFCSVSCSRSYSSNSKKASILARLQGKPPTKKA
KVLHKAAWSAKIGAFLHAQGTGQLADGTPTGQDALVLGFDWGKFLKDHSYKAAPVSCFKHVPLYDQWEDV
MKGMKVEVLNSDAVLPSRVYWIATVIQAAGYRVLLRYEGFENDASHDFWCNLGTVDVHPIGWCAINSKIL
VPPRTIHAKFTDWKSYLMKRLVGSRTLPADFHIKMVESMKYPFRQGMRLEVVDKTQVSRTRMAVVDTVIG
GRLRLLYEDGDSDDDFWCHMWSPLIHPVGWSRRVGHGIKMSDRRCDMSHHPTFRKIYCDAVPYLFKKVRA
VYTEGGWFEEGMKLEAIDPLNLGSICVATICKVLLDGYLMICVDGGPSTDGSDWFCYHASSHAIFPATFC
QKNDIELTPPKGYETQPFAWETYLEKTKSKAAPARLFNMDCPNHGFKVGMKLEAVDLMEPRLICVATVKR
VVHRLLSIHFDGWDNEYDQWVDCESPDIYPVGWCELTGYQLQPPVSAEPNTPQKGKDTTKKKKKQFGKKR
KRIPSAKTRPLRQGSKKPLLEDNLEALGVSEPVPDDIIAVCVKEEHQDISSPDRSPSPQLPLPIESIKQE
RNN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145993

ORF Size: 2112 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_145993.1

RefSeq Size: 3487 bp

RefSeq ORF: 2112 bp

Locus ID: 214669

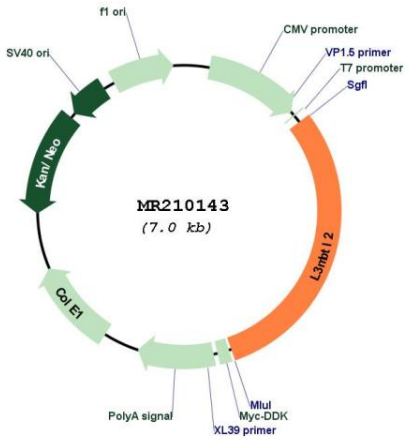
UniProt ID: P59178

Cytogenetics: 15 E1

MW: 79 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]

Product images:



Circular map for MR210143