

## Product datasheet for **RC200781**

### **L3MBTL2 (NM\_031488) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	L3MBTL2 (NM_031488) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	L3MBTL2
Synonyms:	H-l(3)mbt-l; L3MBT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC200781 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGAAGCCCCGGAGTATTGAGGAGACCCCATCTTCAGAACCAATGGAGGAAGAGGAAGATGACGACT  
TGGAGCTGTTGGTGGCTATGATAGTTCCGGAGTTATAACAGCAGTGTGGGCAGTGAGAGCAGCTCCTA  
TCTGGAGGAGTCAAGTGAAGCAGAAAATGAGGATCGGGAAGCAGGGAACTGCCGACCTCCCCGCTGCAT  
TTGCTCAGCCCTGGGACTCCTCGCTCCTGGATGGCAGTGGTTCTGAGCCAGCTGTCTGTGAGATGTGTG  
GTATCGTGGGTACAAGGGAAGCCTTCTTCTCCAAGACCAAGAGGTTCTGCAGCGTCTCCTGCTCCAGGAG  
CTACTCTCCAACCTCAAGAAAGCCAGTATCTGGCTAGATTACAGGGAAAACCACCGACCAAAAAAGCC  
AAAGTCTGCACAAGGCTGCCTGGTCTGCCAAAATGGAGCCTTCTCCACTCTCAAGGGACAGGACAGC  
TGGCAGATGGGACACCAACAGGACAAGACGCTCTGGTCTTGGGCTTCGACTGGGGGAAGTCTCTGAAGGA  
TCACAGTTACAAGGCTGCTCCCGTCAGTGTTCAGCACGTCCCACTCTATGACCAGTGGGAGGATGTG  
ATGAAAGGGATGAAGGTGGAGGTGCTCAACAGTGTGCTGTGCTCCCGAGCCGGGTGACTGGATCGCCT  
CTGTATCCAGACAGCAGGGTATCGGGTGTGCTTCGGTATGAAGGCTTTGAAAATGACGCCAGCCATGA  
CTTCTGGTGCAACCTGGGAACAGTGGATGTCCACCCCATTTGGCTGGTGTGCCATCAACAGCAAGATCCTA  
GTGCCCCACGGACCATCCATGCCAAGTTCACCGACTGGAAGGGCTACCTCATGAAACGGCTGGTGGGCT  
CCAGGACGCTTCCCGTGGATTTCCACATCAAGATGGTGGAGAGCATGAAGTACCCCTTTAGGCAGGGCAT  
GCGGCTGGAAGTGGTGGACAAGTCCCAGGTGTACGCACTCGCATGGCTGTGGTGGACACAGTAACTGGG  
GGTCCCTACGGCTCCTCTACGAGGATGGTGACAGTACGACGACTTCTGGTCCACATGTGGAGCCCC  
TGATCCACCCAGTGGGTTGGTCAAGCAGTGTGGGCCACGGCATCAAGATGTCAGAGAGGCGAAGTGAAG  
GGCCCATCACCCACCTTCCGGAAGATCTACTGTGATGCCGTTCCCTTACCTCTTCAAGAAGGTACGAGCA  
GTCTACACAGAAGGCGGTTGGTTTGAGGAAGGGATGAAGCTGGAGGCCATTGACCCCTGAATCTGGGCA  
ACATCTGCGTGGCAACTGTCTGTAAGGTTCTCCTGGATGGATACCTGATGATCTGTGTGGACGGGGGCC  
CTCCACAGATGGCTTGGACTGGTCTGCTACCATGCCTTCCCACGCCATCTTCCCGGCCACCTTCTGT  
CAGAAGAATGACATTGAGCTCACACCGCCAAAAGGTTATGAGGCACAGACTTTCAACTGGGAGAATACT  
TGGAGAAGACCAAGTCGAAAGCCGCTCCATCGAGACTCTTAAACATGGATTGCCCAAACCATGGCTTCAA  
GGTGGGCATGAAGCTGGAGGCCGTGGACCTGATGGAGCCCCGGCTCATCTGTGTGGCCACGGTGAACGA  
GTGGTGCATCGGCTCCTCAGCATCCACTTGTACGGCTGGGACAGCGAGTACGACCAGTGGGTGGACTGCG  
AGTCCCCAGACATCTACCCGCTCGGCTGGTGTGAGCTCACCGGCTACCAGCTCCAGCCTCCTGTGGCCGC  
AGAACCGCCACACCGCTGAAGGCCAAAGAGGCCACAAAGAAGAAAAAGAAACAGTTTGGGAAGAAAAGG  
AAAAGAATCCCGCCCACTAAGACGCGACCCCTCAGACAGGGGTCCAAGAAGCCCTGCTGGAGGACGACC  
CTCAGGGTGCCAGGAAGATCTCGTCCGAGCCTGTTCTGGCGAGATCATTGCTGTGCGTGTGAAGGAAGA  
GCATCTAGACGTGGCCTCGCCCGACAAGGCTTCAAGTCCAGAGCTGCCTGTCTCCGTCGAGAACATCAAG  
CAGGAAACAGACGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC200781 protein sequence  
 Red=Cloning site Green=Tags(s)

MEKPRSIEETPSSEPMEEEEDDDLELFGGYDSFRSYNSSVGSSESSYLEESSEAEENEDREAGELPTSPLH  
 LLSPGTPRSLDGSSEPAVCEMCGIVGTREAFFSKTKRFCSVSCRSYSSNSKKASILARLQKPPTKKA  
 KVLHKAAWSAKIGAFLSQGTGQLADGPTGQDALVLGFDWGFLLKDHYSKAAPVSCFKHVPLYDQWEDV  
 MKGMKVEVLNSDAVLPsrVYWIASVIQTAGYRVLLRYEGFENDASHDFWCNLTVDVHPIGWCAINSKIL  
 VPPRTIHAKFTDWKGYLMKRLVGSRTL PVDFHIKMVESMKYPFRQGMRLVVDKSVSRTRMAVVDTVIG  
 GRLRLLYEDGSDDDFWCHMWSPLIHPVGSRRVGHGIKMSERRSDMAHHPTFRKIYCDVAVPYLFFKKVRA  
 VYTEGGWFEEGMKLEAIDPLNLGNICVATVCKVLLDGYLMICVDGGPSTDGLDWFCYHASSHAIFPATFC  
 QKNDIELTPPKGYEAQTFNWNYLEKTKSKAAPSRLFNMDCPNHGFKVGMKLEAVDLMEPRLICVATVKR  
 VVHRLLSIHFDGWDSEYDQWVDCESPDYIPVWGCEL TGYQLQPPVAAEPATPLKAKEATKKKKKQFGKKR  
 KRIPPTKTRPLRQGSKKPLEDDPQGARKISSEPVPGEIIAVRVKEEHLDVASPKASSPELPSVENIK  
 QETDD

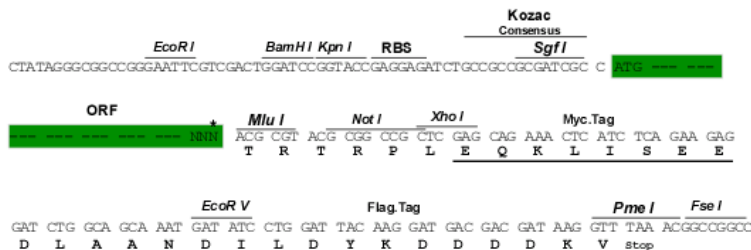
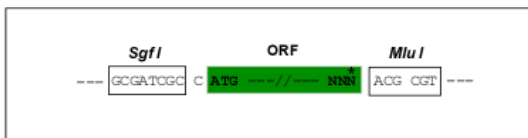
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6237\\_c05.zip](https://cdn.origene.com/chromatograms/mk6237_c05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_031488

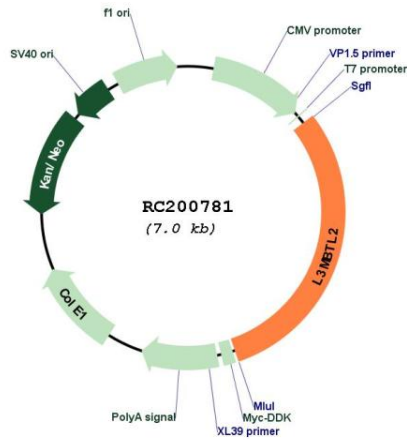
**ORF Size:** 2115 bp

**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](#)

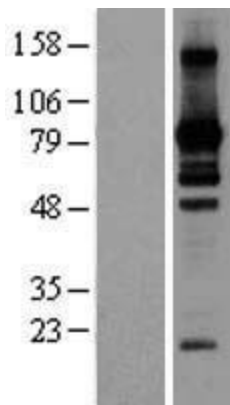
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_031488.3</a>
<b>RefSeq Size:</b>	3205 bp
<b>RefSeq ORF:</b>	2118 bp
<b>Locus ID:</b>	83746
<b>UniProt ID:</b>	<a href="#">Q969R5</a>
<b>Cytogenetics:</b>	22q13.2
<b>Domains:</b>	MBT
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	79.1 kDa
<b>Gene Summary:</b>	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'. [UniProtKB/Swiss-Prot Function]

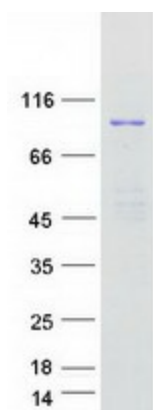
Product images:



Circular map for RC200781



Western blot validation of overexpression lysate (Cat# [LY410485]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200781 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified L3MBTL2 protein (Cat# [TP300781]). The protein was produced from HEK293T cells transfected with L3MBTL2 cDNA clone (Cat# RC200781) using MegaTran 2.0 (Cat# [TT210002]).