

## Product datasheet for **RC215097**

### **L3MBTL3 (NM\_032438) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	L3MBTL3 (NM_032438) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	L3MBTL3
Synonyms:	MBT-1; MBT1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC215097 representing NM\_032438  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACTGAATCTGCCTCTAGCACAAAGTGGTCAAGAGTTTGTGTTCAGTGTATGGACTGGAAGATG  
 GAGTGGGCACGTTACCAGGAAGTGACTTAAAGTTTCGGGTAAATGAGTTTGGAGCCCTGGAAGTTATTAC  
 AGATGAGAATGAGATGGAATGTTAAAAAAGCAACTGCTACCACCACTGGATGGTACCAACTGCTCAA  
 GAAGCCCCGACCTCTCCCCGAGCTCCAGGCCGTATTTCCACCTGCCTACTGGACATCTCCACCTGGAT  
 GTCCACAGTCTTTTCAGAGAAGACTGGGATGCCTTTCAGGTTGAAGGATCCAGTGAAGTGAAGGGCT  
 TCAGTTCTGTGAGAACTGTTGTCAAGTATGGCAACGTAGATGAGTGTCTTCTGGAGGAACTATTGCAGC  
 CAGAATTGTGCTCGGCACATCAAAGATAAAGATCAGAAGGAAGAAAGGGACGTAGAAGAAGACAATGAGG  
 AAGAAGATCCTAAGTGTAGTCGGAAGAAAAACAAAATTATCTCTGAAAGCTGACACCAAGGAGGATGG  
 AGAAGAGAGAGATGATGAAATGGAGAACAACAAGATGTAAAGATCCTGAGGGGTTTCGAGAGAGCACGG  
 AGGAAAAGACGAGGGGATTCGGCTGTACTAAAGCAGGGTTTGCCTCTAAAGGAAAGAAAGCGTGGTGTCT  
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 TCCATATAACAAAAATGGATTCAAAGTTGGCATGAAATTAAGAAGCGTGGATCCTGAGCATCAGTCTGTG  
 TACTGTCTCCTCACCGTCGCGGAGGTTTGTGGATACCGGATAAAGCTTCACTTTGATGGGTATTCTGATT  
 GCTATGACTTCTGGGTGAATGCAGACGCTCTGGATATCCACCCAGTTGGGTGGTGTGAGAAAACCGGCCA  
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 GTATGAAGCTTGAGGCAGTAGACAAAAAGAATCCCTCATCTGTGTTGCTACGGTAACAGATATGGT  
 GGACAATCGTTTCTGGTACATTTTGACAACCTGGGATGAGAGCTATGACTATTGGTGTGAAGCATCAAGT  
 CCACATATTCATCCAGTTGGTGGTGAAGGAACATAGAAGAACCCTTATTACTCCACCAGTTATCCAA  
 ATGTGAAACATTTTTCTGGGATAAATACTTAGAAGAAACCAATCTTTACCTGCTCCTGCAAGAGCTTT  
 CAAAGTGAACCTCCTCATGGATTCCAGAAAAAATGAAGCTTGAGGTTGTAGACAAAAGGAACCCTATG  
 TTTATTAGAGTAGCACTGTGGCAGACACAGATGATCACCGGTAAAAGTTCACTTTGATGGCTGGAACA  
 ATTGCTATGATTACTGGATAGATGCAGATTCTCCTGATATCACCTGTAGGCTGGTGTCAAAAACAGG  
 ACATCCCCTTCAGCCTCCTTTGAGCCCCTTAGAATTAATGGAAGCTTCAGAACATGGTGGATGCTCAACC  
 CCGGGATGTAAGGGATTGGCCATTTCAAGAGAGCGAGACATCTGGGCCCTCACAGTGTGCCAACTGTC  
 CCTATTCAGAAATCAATTTGAATAAAGACCGTATTTTTCCAGACCGCTTAAGTGGTGTGAGATGCCTCCGGC  
 TAGTCCGTCATTTCCAAGAAATAAAGGACAGATGCAAATGAAAGCTCTTCTCCCTGAAATCAGAGAC  
 CAGCATGCTGATGATGTCAAAGAAGACTTTGAAGAGAGAACAGAAAGTGAATGAGAACATCACATGAAG  
 CCAGAGGTGCCCGGAAGAACCACCGTCCAGCAGGCACAGCGTCGGTCAGCTGTCTTTCTGTCTTTAA  
 GTCCCCAATTCATGTCTGCCCTTGGCGTGGGAGCAGCAAAGCAAACCTTCTTCAACTGTGCGAGGAATC  
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 AAGAACATGGAAGGTATTTAAAGATGAACAAATTTGATGGAGAAGCATTCTACTTATGACTCAAACAGA  
 CATTGTTAAAATTATGAGCATTAAACTGGGCCCTGCTCTCAAAATTTTCAATTCATCCTGATGTTCAA  
 GCTGCAGAGAAGAATTCTACAATGAACTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215097 representing NM\_032438  
 Red=Cloning site Green=Tags(s)

MTESASSTSGQEFDFVFSVMDWKDVGTLPGSDLKFRVNEFGALEVITDENEMENVKATATTTWMVPTAQ  
 EAPTSPPSSRPVFPAYWTSPPGCPTVFSEKTGMPFRLKDPVKVEGLQFCENCCQYGNVDECLSGGNYCS  
 QNCARHIKDKDQKEERDVEEDNEEEDPKCSRKKKPKLSLKADTKEDGEERDDEMENKQDVRILRGSQRAR  
 RKRRGDSAVLKQGLPPKGGKAWCWASYLEEEKAVAVPAKLFKEHQSFYPYKNGFKVGMKLEGVDPHQSV  
 YCVLTVAEVCGYRIKLHFDGYSDCYDFVWADALDIHPVWCEKTGHKLHPPKGYKEEFNWQTYLKTCK  
 AQAAPKSLFENQITVIPSGFRVGMKLEAVDKKNPSFICVATVTDMDNRFLVHFDNWDESVDYWCEASS  
 PHIHPVWCKEHRRTLITPPGYPNVKHFSWDKYLEETNSLPAPARAFKVKPPHGFQKKMKLEVVDKRNP  
 FIRVATVADTDDHRVKVHFDGWNNCYDYWIDADSPDIHPVWCSKTGHPLQPPLSPELMEASEHGCGST  
 PGCKGIGHFKRARHLGPHSAANCPYSEINLNKDRIFPDRLSGEMPPASPSFPRNKRTDANESSSSPEIRD  
 QHADDVKEDFEERTESEMRTSHEARGAREEPTVQQAQRSAVFLSFKSPIPLRWEQQSKLLPTVAGI  
 PASKVSWSTDEVSEFIQSLPGCEEHGKVFKEQIDGEAFLMTQTDIVKIMSIKLGPAALKIFNSILMFK  
 AAEKNSHNEL

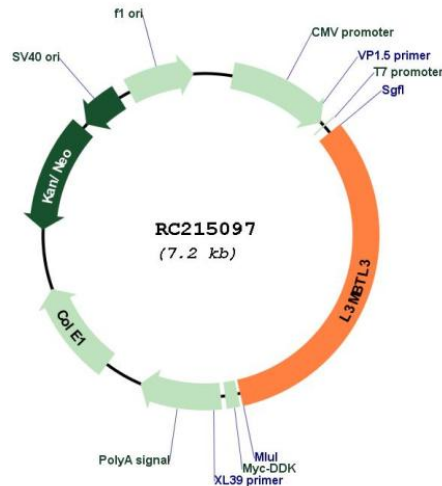
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_032438

**ORF Size:** 2340 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\\_032438.4](#)

**RefSeq Size:** 4217 bp

**RefSeq ORF:** 2343 bp

**Locus ID:** 84456

**UniProt ID:** [Q96JM7](#)

**Cytogenetics:** 6q23.1

**MW:** 88.3 kDa

**Gene Summary:** This gene encodes a member of the malignant brain tumor (MBT) family of chromatin interacting transcriptional repressors. Members of this family function as methyl-lysine readers, which recognize methylated lysine residues on histone protein tails, and are associated with the repression of gene expression. The encoded protein may regulate hematopoiesis. Homozygous deletion of this gene has been observed in human patients with medulloblastoma. [provided by RefSeq, Oct 2016]