

Product datasheet for **RG209288**

L3MBTL3 (NM_001007102) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	L3MBTL3 (NM_001007102) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	L3MBTL3
Synonyms:	MBT-1; MBT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG209288 representing NM_001007102
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTGAATCTGCCTCTAGCACAAAGTGGTCAAGAGTTTGTGTTCAGTGTATGGACTGGAAGATG
 GAGTGGGCACGTTACCAGGAAGTGACTTAAAGTTTCGGGTAAATGAGTTTGGAGCCCTGGAAGTTATTAC
 AGATGAGAATGAGATGGAATAATGTTAAAAAAGCAACTGCTACCACCACTTGGATGGTACCAACTGCTCAA
 GAAGTCTTTTTCAGAGAAGACTGGGATGCCTTTCAGGTTGAAGGATCCAGTGAAAGTAGAAGGGCTTCAGT
 TCTGTGAGAACTGTTGTCAAGTATGGCAACGTAGATGAGTGTCTTCTGGAGGAACTATTGCAGCCAGAA
 TTGTGCTCGGCACATCAAAGATAAAGATCAGAAGGAAGAAAGGGACGTAGAAGAAGACAATGAGGAAGAA
 GATCCTAAGTGTAGTCGGAAGAAAAACCAAAATTATCTCTGAAAGCTGACAACAAGGAGGATGGAGAAG
 AGAGAGATGATGAAATGGAGAACAACAAGATGTAAGAATCCTGAGGGGTTTCGAGAGAGCACGGAGGAA
 AAGACGAGGGGATTCGGCTGTACTAAAGCAGGGTTTGCCTCTAAAGGAAAGAAAGCGTGGTGTCTGGCA
 TCCTACCTGGAAGAGGAGAAAGCGGTGGCAGTCCGGCGAAGCTGTTCAAGGAGCATCAATCCTTTCCAT
 ATAACAAAAATGGATTCAAAGTTGGCATGAAATTAAGAAGCGTGGATCCCAGCATCAGTCTGTGTACTG
 TGTCTCACCGTCGCGGAGGTTTGTGGATACCGGATAAAGCTTCACTTTGATGGGTATTCTGATTGCTAT
 GACTTCTGGGTGAATGCAGACGCTCTGGATATCCACCCAGTTGGGTGGTGTGAGAAAACCGGCCACAAAC
 TCCATCCTCCAAAAGGGTATAAAGAAGAAGAATCAATTGGCAGACCTATCTTAAGACATGTAAGCTCA
 AGCTGCTCCTAAGTCATTATTTGAAAATCAGAATATAACAGTATCCCATCGGGCTTTCGAGTTGGTATG
 AAGCTTGAGGCAGTAGACAAAAAGAATCCCTCATTCTGTGTGTGACGGTACAGATATGGTGGACA
 ATCGTTTCTCGTACATTTTACAACCTGGGATGAGAGCTATGACTATTGGTGTGAAGCATCAAGTCCACA
 TATTCATCCAGTTGGTTGGTGTAAAGAACATAGAAGAACCCTTATTACTCCACCAGGTTATCCAAATGTG
 AAACATTTTTCTGGGATAAATACTTAGAAGAAACCAATTCTTTACCTGCTCCTGCAAGAGCTTTCAAAG
 TGAACCTCCTCATGGATTCCAGAAAAAATGAAGCTTGAGGTTGTAGACAAAAGGAACCTATGTTTAT
 TAGAGTAGCAACTGTGGCAGACACAGATGATCACCGGGTAAAAGTTCACTTTGATGGCTGGAACAATTGC
 TATGATTACTGGATAGATGCAGATTCTCCTGATATTCACCCTGTAGGCTGGTGTCAAAAACAGGACATC
 CCCTTCAGCTCCTTTGAGCCCCTTAGAATTAATGGAAGCTTCAGAACATGGTGGATGCTCAACCCCGGG
 ATGTAAGGGATTGGCCATTTCAAGAGAGCGAGACATCTGGGCCCTCACAGTGTGCCAACTGTCCCTAT
 TCAGAAATCAATTTGAATAAAGACCGTATTTTTCCAGACCGCTTAAGTGGTGTGAGTGCCTCCGGCTAGTC
 CGTCATTTCCAAGAAATAAAGGACAGATGCAAAATGAAAGCTTCTTCCCTGAAATCAGAGACCAGCA
 TGCTGATGATGTCAAAGAAGACTTTGAAGAGAGAACAGAAAGTGAATGAGAATCACATGAAGCCAGA
 GGTGCCCGGAAGAACCACCGTCCAGCAGGCACAGCGTCGGTACAGTGTCTTTCTGTCTTTAAGTCCC
 CAATTCATGTCTGCCCTTGGCTGGGAGCAGCAAAGCAAACCTTCTTCCAAGTGTGCGAGGAATCCCTGC
 CAGTAAAGTTTCCAAATGGAGCACAGACAGGTTGTCAGAAATTTATACAGAGCTTACCTGGGTGTGAAGAA
 CATGGAAGGTATTTAAGATGAACAAATTGATGGAGAAGCATTCTACTTATGACTCAACAGACATTG
 TAAAAATTATGAGCATTAACTGGGCCCTGCTCTCAAAATTTCAATTCATCCTGATGTTCAAAGCTGC
 AGAGAAGAATTTCACAATGAAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209288 representing NM_001007102
Red=Cloning site Green=Tags(s)

```

MTESASSTSGQEFDFVFSVMDWKDVGTLPGSDLKFRVNEFGALEVITDENEMENVKATATTTWMVPTAQ
EVFSEKTGMPFRLKDPVKVEGLQFCENCCQYGNVDECLSGGNYCSQNCARHIKDKDQKEERDVEEDNEEE
DPKCSRKKKPKLSLKADNKEDGEERDDMENKQDVRILRGSQRARRKRRGDSAVLKQGLPPKGGKAWCWA
SYLEEEKAVAVPAKLKEHQSFYPYKNGFKVGMKLEGVDPHQSVYCVLTVAEVCGYRIKLFHFDGYSDCY
DFWVNADALDIHPVWGCEKTGHKLHPPKGYKEEFNWQTYLKTCKAQAAPKSLFENQITVIPSGFRVGM
KLEAVDKKNPSFICVATVTDMDNRFLVHFDNWDESYDYWCEASSPHIHPVWGCKEHRRTLITPPGYPNV
KHFSWDKYLEETNSLPAPARAFKVKPPHGFQKKMKLEVVDKRNPFIKRVATVADTDDHRVKVHFDGWNNC
YDYWIDADSPDIHPVWGCSKTGHPLQPPLSPELMEASEHGGCSTPGCKGIGHFKRARHLGPHSAANCPY
SEINLNKDRIFPDRLSGEMPPASPSFPRNKRTDANESSSSPEIRDQHADDVKEDFEERTESEMRTSHEAR
GAREEPTVQQAQRSAVFLSFKSPIPLRWEQQSKLLPTVAGIPASKVSKWSTDEVSEFIQSLPGCEE
HGKVKFDEQIDGEAFLLMTQTDIVKIMSIKLGPAIKIFNSILMFKAAEKNSHNEL
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001007102

ORF Size: 2265 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_001007102.1](#), [NP_001007103.1](#)

RefSeq Size: 4140 bp

RefSeq ORF: 2268 bp

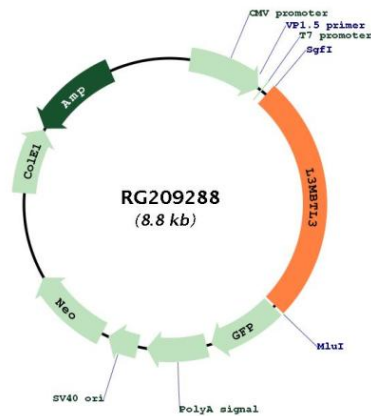
Locus ID: 84456

UniProt ID: [Q96JM7](#)

Cytogenetics: 6q23.1

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]

Product images:



Circular map for RG209288