

Product datasheet for RC222077L4

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OriGene Technologies, Inc.

MAML2 (NM_032427) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MAML2 (NM_032427) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: MAML2

Synonyms: MAM-3; MAM2; MAM3; MLL-MAML2

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC222077).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_032427

ORF Size: 3459 bp



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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: <u>NM 032427.1</u>

 RefSeq Size:
 5428 bp

 RefSeq ORF:
 3471 bp

 Locus ID:
 84441

 UniProt ID:
 Q8IZL2

Protein Families: Druggable Genome, Transcription Factors

11q21

Protein Pathways: Notch signaling pathway

MW: 125 kDa

Cytogenetics:

Gene Summary: The protein encoded by this gene is a member of the Mastermind-like family of proteins. All

family members are proline and glutamine-rich, and contain a conserved basic domain that binds the ankyrin repeat domain of the intracellular domain of the Notch receptors (ICN1-4) in their N-terminus, and a transcriptional activation domain in their C-terminus. This protein binds to an extended groove that is formed by the interaction of CBF1, Suppressor of

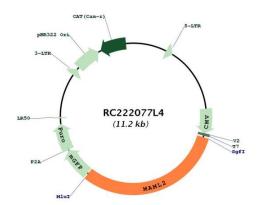
Hairless, LAG-1 (CSL) with ICN, and positively regulates Notch signaling. High levels of expression of this gene have been observed in several B cell-derived lymphomas.

Translocations resulting in fusion proteins with both CRTC1 and CRTC3 have been implicated in the development of mucoepidermoid carcinomas, while a translocation event with CXCR4 has been linked with chronic lymphocytic leukemia (CLL). Copy number variation in the

polyglutamine tract has been observed. [provided by RefSeq, Jan 2015]



Product images:



Circular map for RC222077L4