

Product datasheet for **SC309968**

MAML2 (NM_032427) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAML2 (NM_032427) Human Untagged Clone
Tag: Tag Free
Symbol: MAML2
Synonyms: MAM-3; MAM2; MAM3; MLL-MAML2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_032427 edited
 ATGGGGGACACAGCGCCCCCGCAGGCCCGCAGGAGGGCTAGGGGGGGCCTCTGGGGCG
 GGGCTCCTTGGAGGGGGCTCAGTCACCCGAGAGTGCACAGTGCTATCGTGGAGCGCCTC
 CGGGCTCGGATCGCTGTCTGCCGCAACACCACCTGAGCTGTGAAGGACGATATGAACGA
 GGTAGGGCCGAGAGCTCAGACCCGGAAAGAGAAAGCACCTTGCAGCTCCTGAGCCTTGTA
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AGTGATGCTGATTTTATTGATTCTTTATTGAAGACAGAGCCTGGTAATGATGACTGGATG
AAAGACATCAATCTTGATGAAATCTTGGGAACAATTCCTAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_032427
- Insert Size:** 3500 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_032427.1](#), [NP_115803.1](#)

RefSeq Size: 5428 bp

RefSeq ORF: 3471 bp

Locus ID: 84441

UniProt ID: [Q8IZL2](#)

Cytogenetics: 11q21

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Notch signaling pathway

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]