

Product datasheet for **SC304167**

MAML1 (NM_014757) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAML1 (NM_014757) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAML1
Synonyms:	Mam-1; Mam1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_014757 edited
 ATGGTGCTGCCACCTGCCCATGGCGGAGTTCGCGCTGCCGCGCACAGCGGTCATG
 GAGCGCCTTCGCCGGCGCATCGAGCTGTGCCGGCGCCACCAGCACCTGCGAGGCCCGC
 TACGAGGCCGTGTCGCCCGAGCGCTGGAGCTGGAGCGCCAACACACCTTCGCCCTGCAC
 CAGCGCTGCATCCAGGCCAAGGCCAAGCGCGCCGGGAAGCACAGGCAGCCGCCCGCCGCC
 ACGGCCCGCGCGCCGCCCGCCCGCCCGCGCCTGGACGCCGCTGACGGCCCGAGCAC
 GGCCGCCCGGCCACGCATCTTCATGATACAGTTAAGAGGAATCTTGACAGCGCCACTTCC
 CCTCAGAATGGCGATCAACAGAATGGCTACGGGGACCTCTTCTGGGCATAAGAAGACT
 CGCCGGGAGGCCCTCTGGGAGTTGCCATCTCTCCAATGGACTGCCTCCAGCCTCCCCC
 CTCGGTCAGTCTGACAAGCCTTCTGGAGCCGACGCCCTGCAGTCCAGTGGGAAGCACTCT
 CTGGGGTAGACTCTCTCAACAAAAGCGTCTGGCTGACTCCAGCCTTCACTTGAATGGA
 GGCAGTAACCCAGTGAGTCATTTCTCTGAGCCTGAATAAAGAAGTGAAGCAGGAGCCT
 GTCGAAGACCTGCCTTGATGATCACTGGGACTGTCCGCTCCATATCGCAAAGCAACCTC
 ATGCCAGACCTCAACCTAACGAGCAGGAGTGAAGGAGCTCATCGAGGAGCTGAACAGG
 TCGGTGCCGATGAAGACATGAAGGACCTGTTAATGAGGACTTCGAGGAGAAGAAGGAC
 CCAGAGTCTTCTGGCTCTGCCACACAAACCCCTTGGCACAGGACATTAATTAAGACG
 GAATTCTCTCAGCAGCCTTTGAGCAAGAACAGTTAGGCTCTCCACAAGTGAAGGCCGGG
 TCTGCAGGGCAGACCTTTCTGGGGCCTTCTCTGCCCTGTGAGTACAGATTCCCCCAGC
 CTAGGGGGCTCCCAAACCTTATTCCACACCTCTGGTCAGCCCCGGGCGGACAATCCCAGT
 CCAAACCTGATGCCGGCATCAGCCAGGCCAGAACGCACAAAGAGCCCTTGACAGGTGTG
 GTATTGCCAGTCAGGGCCAGGAGGGCCTCAGAGCTGTCTCTGCCACCAGTCCAG
 CAGATCGCTGCCAAGCAGAAGCGCGAGCAGATGCTCCAGAACCACAGCAGGCCACCCCG
 GCACCAGCCCCGGCCAGATGTCCACATGGCAGCAGACGGGGCCCTCCACAGTTCCTTA
 GATGTCCCTTACCCATGGAGAAGCCTGCCAGCCCTTCCAGCTACAAGCAAGACTTCACT
 AACTCAAAGTGTCTATGATGCCTAGTGTGAATAAGAGTTCCTCGGCCGGAGGCCCC
 TACCTCCAGCCAGCCATGTGAACCTGCTGAGTACCAGCCACCGAGTAACCTGAATCAG
 AACTCCGGAATAACAGGGTCTGTGCTGGACTACGGCAATACAAAACCCCTTCTCAT



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TACAAAGCGGACTGTGGGCAAGGCAGCCCGGGTCTGGCCAGAGCAAGCCAGCCCTGATG
 GCTTATCTTCCCCAGCAGCTGTCCCATATAAGTCACGAGCAGAAGCTCCCTGTTTCTGATG
 AAGCCAAAGCCAGGAAATATGCCTTCCGATCACTGGTCCACCTGGCCAGGAGCAGAAC
 CCTTCCAGTGTCCCTGTGCAAGCCAGGCTACCACTGTTGGGACCCAGCCGCTGCCGTG
 TCCGTGGCCAGCTCCCAACAGCTCCCCATCTCAGCAGCCAGCAACAGGCCGCTGTA
 ATGAAGCAGCATCAGTTGCTTTTGGACCAACAGAAACAAAGGGAGCAGCAGCAAAAGCAT
 TTACAGCAACAGCAGTTCTTTCAGAGGCAACAGCACCTTCTCGCGGAACAGGAGAAGCAA
 CAGTTTTCAGCGCCATCTGACCCGCCACCACCCAGTACCAAGACCCGACACAAGGCAGC
 TTTCCACAGCAGGTTGGACAGTTCACAGGTCCTCTGCTGCCGTGCCCGCATGAACACC
 TTGGGTCCATCCAACCTCCAGCTGTCTCGAGTGTCCCTCAGGCTGGGAATCTGATGCCA
 ATGGGCCCTGGACATGCTTCACTTCTCTCTCCCAAACTCAGGCCAACAGGACCGG
 GGTGTGGCTCAGTTCCTGGCTCCCAAAACATGCCTCAGAGCAGCCTCTATGGCATGGCT
 TCTGGCATAACCCAGATAGTTGCCAGCCCCGCCACAGGCCACCAATGGACATGCCAC
 ATTCCACGGCAGACCAACGTGGCCAGAACACCTCCGTCTCAGCTGCCTATGGGCAGAAC
 TCTCTGGGAAGCTCTGGCCTCTCCAGCAGCACAATAAGGGGACCCTGAACCCTGGTTTA
 ACAAGGCCACCGTCCCAAGGGTGTACCAGCCATGGGAGGCCAGAATTCCTCCTGGCAG
 CATCAGGGAATGCCGAACCTCAGTGGCCAGACCCAGGGAACAGCAACGTGAGTCCCTTC
 ACTGCAGCCTCCAGTTTCCACATGCAGCAGCAGGCCACCTGAAAATGTCTAGCCCGCAA
 TTCTCCAGGCAGTGCCCAACAGGCCATGGCTCCCATGAGCTCAGCAGCTGCCGTGGGG
 TCCTTGCTACCCCAAGTGAAGTGCACAGCAGAGGACCAGCGCCCTGCCCCAGCACCC
 CCAACAGCCCCTCAGCAGGGCTGCCTGGCCTGAGCCAGCAGGGCCTGAGCTGGGGCC
 TTCAGCCAGAGCCCTGCCTCACAGATGGCGGTGGGGCGGGCTGCACTGCACCCAGGCC
 TACCCTGTGCGGACCCGCGGCCAGGAGCTGCCTTTTGCCTATAGCGGGCAGCCAGTGCC
 AGTGGGCTCTCTAGTGTGGCTGGACACACCGATCTGATCGACTCCCTGCTGAAGAACAGG
 ACTTCAGAGGAGTGATGAGTGATTTGGACGACCTGTTAGGGTCTCAGTAA

- Restriction Sites:** Please inquire
- ACCN:** NM_014757
- Insert Size:** 5600 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:** The open reading frame of this clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_014757.4.
- 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_014757.3](#), [NP_055572.1](#)

RefSeq Size: 5745 bp

RefSeq ORF: 3051 bp

Locus ID: 9794

UniProt ID: [Q92585](#)

Cytogenetics: 5q35.3

Protein Pathways: Notch signaling pathway

Gene Summary: This protein is the human homolog of mastermind, a Drosophila protein that plays a role in the Notch signaling pathway involved in cell-fate determination. There is in vitro evidence that the human homolog forms a complex with the intracellular portion of human Notch receptors and can increase expression of a Notch-induced gene. This evidence supports its proposed function as a transcriptional co-activator in the Notch signaling pathway. [provided by RefSeq, Jul 2008]