

## Product datasheet for MR221860

### Maml1 (NM\_175334) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Maml1 (NM_175334) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Maml1
Synonyms:	AI644666; AW743257; D930008C07Rik; Mam-1; Mam1; mKIAA0200
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221860 representing NM_175334 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC

ATGGTGTACCCACCTGCCCCATGGCGGAGTTCGCGCTGCCGCGGCACAGCGCGGTATGGAGCGCCTCCGCCGGCGCATCGAACTGTGCCGGCGCCACCACAGCACCTGTGAGGCCCGCTACGAGGCTGTGTCTCCCGAGCGCTCGAGCGCCAGCACACCTTTGCCCTGCACCAGCGCTGCATCCAGGCCAAGGCCAAGCGCGCCGCAAGCACCAGCGCCGCGCCGCGCCGCGCCACGGCCCCGGTTGCCGCTCCGGCCCCCGCTCGGCCCGGCGCCGCGCCTGGACGCAGCGGACGGCCCGGAGCACGGCCGCGCCGTCGCGCATCTTCATGATACAGTGAAGAGGAGTCTTGACAGTGTGCCTCCCCCTCAGAATGGCGATCAACCAAATGGCTACGGAGACTTGTTCCTGGGCATAAGAAGACACGCCGGGAGGCCCTCTGGGGTCAAGTGTGTCTGCCAATGGGCTTCCTCTGCTCGCCCCCTGGGCCAGCCGACAAGCCTTCAGGGGAGACACCCTGCAGACCGCTGGGAAGCACTCTGGGGCTCGATCCCATCAACAAGAAGTGTCTGGCAGACTCAGGCATCCACCTGAATGGAGGCAGCAACTCCAGTGAGCCCTTCTCTAAGCCTGAGTAAAGAACTCAAGCAGGAGCCAGTGGACGACCTGCCGTGATGATCGCGGGCGCTGGAGGCTCCGTAGCTCAGAGCAACCTCATGCCGGACCTCAACCTTAATGAGCAGGAGTGAAGGAGCTCATCGAGGAGCTCAACAGGTCAAGTGGCCGACGAAAGACATGAAGGACCTGTTACGGAGACTTTGAGGAGAAGAAGGATCCAGAGCCTCTGGCTTGCCACACAAACCCCTGGCCAGGACATTAATTAAGACTGAGTTCTCTCCAGCAGCTTTTGAGCAGGAGCAGTTAGGTTCTCCACAAGTAAGGGCTGGTCTGCAGGCCAGACCTTCTAGGAGCCTCATCTGCCCTGTGGGCACAGATTCTCCAAGCCTTGGGAGCTCTCAGACTCTGTTTACACAAGTCAACTGGGGTGGATAATTCCAGTCCAAACCTGATGCCGGCATCAGCCCAGGCTCAAAGTGCACAAAGAGCCCTCACGAGTGTGGTATTACCTAGCCAGGGCCAGGCGGGCCTCGGAGCTGTCTCTGCTCACCAGCTCCAGCAGATAGCTGCCAAGCAGAAGCGCAGCAGATGTTGCAGAATCCCCAGCAAGCTGCCCCAGCACCCGCGCCAGCCAGCTGGCCAGTGGCAGCAGGCAGGCCCCCTCCACAGTCCCTTAGATGTTCTTATCCCATGGAGAAGCCTGCCAGCCCTTCTGGCTACAAGCAAGACTTTACCAACTCAAACCTGCTCATGATGCCCGGTGTGAACAAGAGTTCTCCTCGGCCAGGAGGCCCTACCTCAA



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CCTAGCCACTCCAACCTGCTGAGTCACCAAGTAACTTGAATCAGAACCCCGTGAATAACCAAG  
 GGTCTGTGCTAGACTATGGCAATACAAAGCCCCTTCTCATTACAAAGCAGACTGTGGCCAAAGTGGTCC  
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 GCTTAAGTCTTTCGGGGCCGAGCTGGGGGCTTCGGCCAGAGCCCCACCTCCAGATGAGCGGCCGGCC  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221860 representing NM\_175334  
 Red=Cloning site Green=Tags(s)

MVLPTCPMAEFALPRHSVMERLRRRIELCRRHHSTCEARYEAVSPERLELERQHTFALHQRICIQAKAKR  
 AGKHRQPAAATAPVAAPAPASAPAAARLDAADGPEHGRPV AHLHDTVKRSLDSAASPQNGDQPNGYGD  
 LFPGHKTRREAPLGVSVSANGLPASPLGQDPKPSGGDTLQTAGKHSGLDLPINKKCLADSGIHLNGGSN  
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 DFEEKDPEPPGSATQTPLAQDINIKTEFSPAAFEQEQLGSPQVRAGSAGQTFLGASSAPVGTDSPLGS  
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 PSHSNLLSHQSPSNLNQNPVNNQGSVLDYGNKPLSHYKADCGQGGPGSGQNKPALMAYLPQQLPHLSNE  
 QNSLFLMKPKSGNMPFRSLVPPGQEQNPSSVPVAAPAASVGTQPTVSVASTHNSSPYLSSQQQAAMKQH  
 QLLLDQKQREQQQQQLQQQFLQRQHLLAEQEQQFQRHLTRPPPQYQDPTQSTFPQQVGFQFTGPSAAV  
 PGMNMLGPSNSSCPRVFPQPTLMSMGPHAPVSSLPSSSQQDRGVAQFTGSQSLPQNSLYGMASGLAQ  
 IVAQPPPQATSTHAHIPRQTVNGQNASTSAAYGQNSLGSASLSQQHSGKTLPPGLTKPQVPRVSAAMGSQ  
 NASWQHQQMPNLSSQTSGNSSVNPFTAAPSFHIQQAHLKLAGQQFSQAMPSPMAPLSSAGAAGPMLPPV  
 SAQQRNSAPASAPPQAAPQQLPGLSPSGPELGAFGQSPTSQMSGRPGLHCAQAYPVRTMGQELPFAYSG  
 QPGSSGLSSVAGHTDLIDSLLLKNRTSEEWINELDDLLGSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9049\\_e05.zip](https://cdn.origene.com/chromatograms/mm9049_e05.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_175334

**ORF Size:** 3060 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\\_175334.3](#), [NP\\_780543.2](#)

**RefSeq Size:** 5573 bp

**RefSeq ORF:** 3063 bp

**Locus ID:** 103806

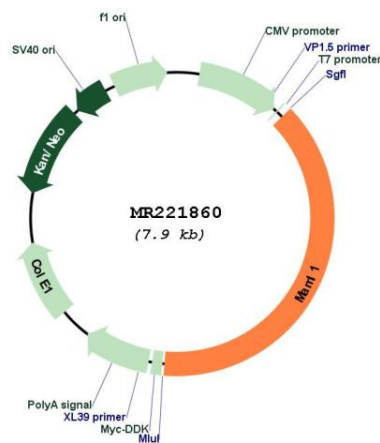
UniProt ID: [Q6T264](#)

Cytogenetics: 11 B1.3

MW: 108.2 kDa

**Gene Summary:** Acts as a transcriptional coactivator for NOTCH proteins. Has been shown to amplify NOTCH-induced transcription of HES1. Enhances phosphorylation and proteolytic turnover of the NOTCH intracellular domain in the nucleus through interaction with CDK8. Binds to CREBBP/CBP which promotes nucleosome acetylation at NOTCH enhancers and activates transcription. Induces phosphorylation and localization of CREBBP to nuclear foci. Plays a role in hematopoietic development by regulating NOTCH-mediated lymphoid cell fate decisions. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221860