

Product datasheet for **MG221860**

Maml1 (NM_175334) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Maml1 (NM_175334) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Maml1
Synonyms:	AI644666; AW743257; D930008C07Rik; Mam-1; Mam1; mKIAA0200
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221860 representing NM_175334 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCTACCCACCTGCCCCATGGCGGAGTTCGCGCTGCCGCGGCACAGCGGGTTCATGGAGCGCCTCC
GCCGGCGCATCGAACTGTCCGGCGCCACCACAGCACCTGTGAGGCCCGCTACGAGGCTGTGTCTCCCGA
GCGCCTGGAGCTCGAGCGCCAGCACACCTTTGCCCTGCACCAGCGCTGCATCCAGGCCAAGGCCAAGCGC
GCCGGCAAGCACCAGCGCCGCGGCCGCGCCGCGCCACGGCCCGGTGCCGCTCCGGCCCCGCTCGGCC
CGGCGGCCGCGCCTGGACGCAGCGGACGGCCCGGAGCACGGCCCGCGGTTCGCGCATCTTCATGATAC
AGTGAAGAGGAGTCTTGACAGTGTGCCTCCCCTCAGAAATGGCGATCAACCAAATGGCTACGGAGACTTG
TTTCTGGGCATAAGAAGACACGCCGGGAGGCCCTCTGGGGTTCAGTGTGTCTGCCAATGGGCTTCTCT
CTGCCTCGCCCCCTGGGCCAGCCGACAAGCCTTCAGGGGAGACACCCTGCAGACCGCTGGGAAGCACTC
TCTGGGGCTCGATCCCATCAACAAGAAGTGTCTGGCAGACTCAGGCATCCACCTGAATGGAGGCAGCAAC
TCCAGTGAGCCCTTCTCTAAGCCTGAGTAAAGAACTCAAGCAGGAGCCAGTGGACGACCTGCCGTGCA
TGATCGCGGGCGCTGGAGGCTCCGTAGCTCAGAGCAACCTCATGCCGGACCTCAACCTTAATGAGCAGGA
GTGGAAGGAGCTCATCGAGGAGCTCAACAGGTCACTGCCCCGACGAAGACATGAAGGACCTGTTTACGGAG
GACTTTGAGGAGAAGAAGGATCCAGACCTCCTGGCTGCCACACAAACCCCTGGCCAGGACATTA
ATATTAAGACTGAGTTCTCTCCAGCAGCTTTTGAGCAGGAGCAGTTAGGTTCTCCACAAGTAAGGGCTGG
GTCTGCAGGCCAGACCTTCTAGGAGCCTCATCTGCCCTGTGGGCACAGATTCTCCAAGCCTTGGGAGC
TCTCAGACTCTGTTTACACAAGTCAACCTGGGGTGGATAATTCCAGTCCAAACCTGATGCCGGCAT
CAGCCCAGGCTCAAAGTGACAAAGAGCCCTCACGAGTGTGGTATTACCTAGCCAGGGCCAGGCGGGGC
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ACAGTCCCTTAGATGTTCTTATCCCATGGAGAAGCCTGCCAGCCCTTCTGGCTACAAGCAAGACTTTAC
CAACTCAAACCTGCTCATGATGCCCGGTGTGAACAAGAGTTCTCCTCGGCCAGGAGGCCCTACCTCAA



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CCTAGCCACTCCAACCTGCTGAGTCACCAAGTAACTTGAATCAGAACCCCGTGAATAACCAAG
 GGTCTGTGCTAGACTATGGCAATACAAAGCCCCTTCTCATTACAAAGCAGACTGTGGCCAAAGTGGTCC
 TGGGTCTGGCCAGAACAAACCAGCTTTGATGGCATATCTTCCCCAGCAGCTGCCCATCTGAGTAACGAG
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 AGCCATGCCAGCAGGCCATGGCGCCTCTGAGTTCAGCAGGTGCAGCAGGGCCCATGCTGCCCCAGTG
 AGTGCACAGCAGAGGAACAGTGCCTCTGCACCTCCCAAGCAGCCCCGAGCAGGGCTTGCCTG
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 AGGGCTACACTGTGCGCAGGCTTACCCTGTGAGGACCATGGGCCAAGAGCTGCCCTTTCCTACAGCGGG
 CAGCCAGGTAGCAGTGGTCTGTCCAGTGTGGCTGGACACACTGACCTGATCGACTCGTGTGAAGAACA
 GGACTTCTGAGGAGTGGATCAATGAATTGGATGATCTTTTAGGGTCACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221860 representing NM_175334
 Red=Cloning site Green=Tags(s)

MVLPTCPMAEFALPRHSAMERLRRRIELCRRHHSTCEARYEAVSPERLELERQHTFALHQRCIQAKAKR
 AGKHRQPPAAATAPVAAPAPASAPAAARLDAADGPEHGRPVVAHLHDTVKRSLDSAASPQNGDQPNGYGD
 FPGHKTRREAPLGVSVSANGLPASPGLQDPKPSGGDTLQTAGKHSGLDLPINKKCLADSGIHLNGGSN
 SSEPFPLSLSKELKQEPVDDLPCMIAGAGGSVAQSNLMPDLNLNEQEWKELIEELNRSVPDEDMKDLFTE
 DFEKKDPEPPGSATQTPLAQDINIKTEFSPAAFEQEQLGSPQVRAGSAGQTFLGASSAPVGTDSPLSGS
 SQTLFHTTSQPGVDNSSPNLMPASAQAQSAQRALTSVVLPSQGGASELSSAHQLQQIAAKQKREQMLQ
 NPQQAAPAPGPGQLATWQQAGPSHSPLDVPYPMKPPASPSGYKQDFNSKLLMMPGVNKSPPRPGGPLYLQ
 PSHSNLLSHQSPSNLNQNPVNNQGSVLDYGNKPLSHYKADCGQGGPGSGQNKPALMAYLPQQLPHLSNE
 QNSLFLMKPKSGNMPFRSLVPPGQEQNPSSVPVAAPAASVGTQPTVSVASTHNSSPYLSSQQQAAMKQH
 QLLLDQKQREQQQQQLQQQFLQRQHLLAEQEKQQFQRHLTRPPPQYQDPTQSTFPQQVQFTGPSAAV
 PGMNLLGPSNSSCPRVFPQPGTLMMSGPHAPVSSLPSSSGQQDRGVAQFTGSQSLPQNSLYGMASGLAQ
 IVAQPPPQATSTHAHIPRQTNVQNAASTSAAYGQNSLGSASLSQQHSGKTLPPGLTKPQVPRVSAAMGSQ
 NASWQHQQMPNLSSQTSNSSVNPFTAAPSFHIQQAHLKLAGQQFSQAMPSPMAPLSSAGAAGPMLPPV
 SAQQRNSAPASAPPQAAPQQGLPGLSPSGPELGAFGQSPTSQMSGRPGLHCAQAYPVRTMGQELPFAYSG
 QPGSSGLSSVAGHTDLIDSLLNRTSEEWINELDDLGSQ

TRTRPLE - GFP Tag - V

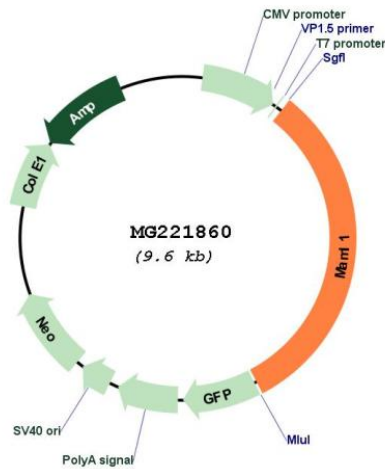
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]