

Product datasheet for **RG214790**

MAML1 (NM_014757) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAML1 (NM_014757) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAML1
Synonyms:	Mam-1; Mam1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214790 representing NM_014757 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTGCCACCTGCCCCATGGCGGAGTTCGCGCTGCCGCGGCACAGCGCGGTATGGAGCGCCTTC
GCCGGCGCATCGAGCTGTCCGGCGCCACCACAGCACCTGCGAGGCCCGCTACGAGGCCGTGTCGCCGA
GCGCTGGAGCTGGAGCGCAACACACCTTCGCCCTGCACCAGCGCTGCATCCAGGCCAAGGCCAAGCGC
GCCGGGAAGCACAGGCAGCCGCCCGCCGCGCCACGGCCCCGGCGCCCGCCCGCCCGCCCGCTGGAGC
CCGCTGACGGCCCGAGCACGGCCGCCCGCCACGCATCTTCATGATACAGTTAAGAGGAATCTTGACAG
CGCCACTTCCCCTCAGAATGGCGATCAACAGAATGGCTACGGGGACCTCTTCTGGGCATAAGAAGACT
CGCCGGGAGGCCCTCTGGGAGTTGCCATCTCTCCAATGGACTGCCTCCAGCCTCCCCCTCGGTCACT
CTGACAAGCCTTCTGGAGCCGACGCCCTGCAGTCCAGTGGGAAGCACTCTCTGGGGCTAGACTCTCTCAA
CAAAAAGCGTCTGGTACTCCAGCCTTCACTTGAATGGAGGCAGTAACCCAGTGAGTCATTTCTCTG
AGCCTGAATAAAGAACTGAAGCAGGAGCCTGTGGAAGACCTGCCTTGCATGATCACTGGGACTGTCGGCT
CCATATCGCAAAGCAACCTCATGCCAGACCTCAACCTTAACGAGCAGGAGTGAAGGAGCTCATCGAGGA
GCTGAACAGGTCGGTCCCGATGAAGACATGAAGACCTGTTAATGAGGACTTCGAGGAGAAGAAGGAC
CCAGAGTCTTCTGGCTCTGCCACAAAACCCCTTGGCACAGGACATTAATTAAGACGGAATTTCTCTC
CAGCAGCCTTTGAGCAAGAAGACTTAGGCTCTCCACAAGTGAGGGCCGGTCTGCAGGGCAGACCTTCT
GGGGCCTTCTCTGCCCTGTGAGTACAGATTCGCCAGCCTAGGGGGCTCCCAAACCTTATTCCACACC
TCTGGTACGCCCCGGGCGGACAATCCCAGTCCAAACCTGATGCCGGCATCAGCCAGGCCAGAAGCGAC
AAAGAGCCCTTGCAGGTGTGGTATTGCCAGTCAGGGCCAGGAGGGCCCTCAGAGCTGTCTCTGCCCA
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GCCTAGTGTGAATAAGAGTTCCTCGGCCGGAGGCCCTACCTCCAGCCAGCCATGTGAACCTGCTG



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AGTCACCAGCCACCGAGTAACTTGAATCAGAACTCCGCGAATAACCAGGGGTCTGTGCTGGACTACGGCA
 ATACAAAACCCCTTTCTCATTACAAAGCGGACTGTGGCAAGGCAGCCCGGGGTCTGGCCAGAGCAAGCC
 AGCCCTGATGGCTTATCTTCCCCAGCAGCTGTCCCATATAAGTCACGAGCAGAATCCCTGTTTCTGATG
 AAGCCAAAGCCAGGAAATATGCCTTCCGATCACTGGTTCACCTGGCCAGGAGCAGAACCCTTCCAGTG
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 CACCCAGGCCACCTGTGCGGACCGGGGCCAGGAGTGCCTTTTGCCTATAGCGGGCAGCCAGGTGGC
 AGTGGGCTCTCTAGTGTGGCTGGACACCCGATCTGATCGACTCCCTGCTGAAGAACAGGACTTCAGAGG
 AGTGGATGAGTGATTTGGACGACCTGTTAGGGTCTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214790 representing NM_014757
 Red=Cloning site Green=Tags(s)

MVLPTCPMAEFALPRHSAMERLRRRIELCRRHHSTCEARYEAVSPERLELERQHTFALHQRCIQAKAKR
 AGKHRQPPAATAPAPAAPAPRLDAADGPEHGRPATHLHDTVKNRLDSATSPQNGDQNGYGDLPFGHKKT
 RREAPLGVAISSNGLPPASPLGQSDKPSGADALQSSGKHSGLDSLNNKRLADSSLHLNNGSNPSEFPL
 SLNKEKQEPVEDLPCMITGTVGSISQSNLMPDLNLEQEWKELIEELNRSVPDEDMKDLFNEDEFEKDD
 PESSGSATQTPLAQDINIKTEFSPAAFEQELGSPQVRAGSAGQTF LGPSSAPVSTDSPLGGSQTLFHT
 SGQPRADNPSPNLMPASQAQNAQRALAGVVLPSQGGGASELSSAHLQQIAAKQKREQMLQNPQQATP
 APAPGQMTWQQTGSPHSSLDVPYPMKPPASPSSYKQDF TNSKLLMMPVSNKSSPRPGPYLQPSHVNLL
 SHQPPSNLNQNSANNQGSVLDYGNKPLSHYKADCGGSPGSGQSKPALMAYLPQQLSHISHEQNSLFLM
 KPKPGNMPFRSLVPPGQEQNPSSVPVQAQATSVGTQPPAVSVASSHNSSPYLSSQQQAAMVKQHQLLLDQ
 QKQREQQKHLQQQFLQRQHL LAEQEKQFQRHLTRPPPQYQDPTQGSFPQQVGFQFTGSSAAVPGMNT
 LGPSNSSCPRVFPQAGNLMMPMGPHASVSSLPTNSGQQDRGVAQFPQSQNPQSSLYGMASGITQIVAQP
 PPQATNGHAHIPRQTNVQNTSVSAAYGQNSLGSGLSQQHNGKTLNPLTKPPVPRVSPAMGGQNSSWQ
 HQGMPNL SGQTPGNSNVSPFTAASSFHMQQAHLMSSPQFSQAVPNRPMAMSSAAAVGSLPPVSAQQ
 RTSAPAPAPPPTAPQQGLPGLSPAGPELGAFS QSPASQMGGRAGLHCTQAYPVRTAGQELPFAYSQQPGG
 SGLSSVAGHTDLIDSLKNRTSEEWMSDLDLLGSQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014757

ORF Size: 3048 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_014757.5](#)

RefSeq Size: 5745 bp

RefSeq ORF: 3051 bp

Locus ID: 9794

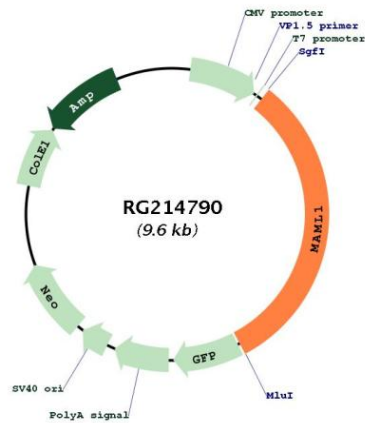
UniProt ID: [Q92585](#)

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]

Product images:



Circular map for RG214790