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Product datasheet for RC214790

MAML1 (NM_014757) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAML1 (NM_014757) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAML1
Synonyms:	Mam-1; Mam1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC214790 representing NM_014757
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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Protein Sequence:

>RC214790 representing NM_014757
Red=Cloning site Green=Tags(s)

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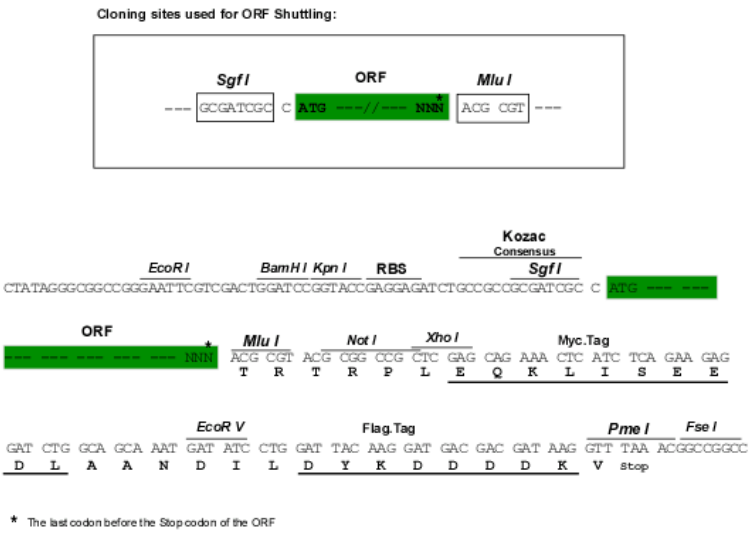
Chromatograms: https://cdn.origene.com/chromatograms/mk8030_c11.zip

Restriction Sites: SgfI-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

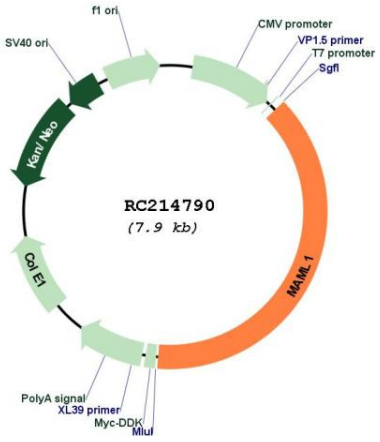
Cytogenetics: 5q35.3

Protein Pathways: Notch signaling pathway

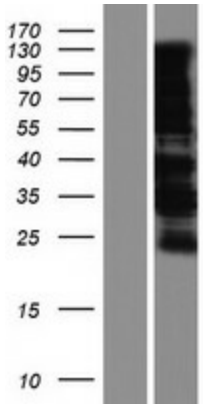
MW: 107.9 kDa

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]

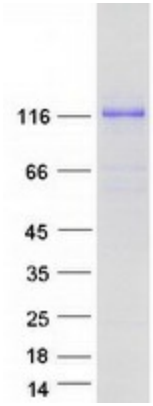
Product images:



Circular map for RC214790



Western blot validation of overexpression lysate (Cat# [LY415055]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214790 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAML1 protein (Cat# [TP314790]). The protein was produced from HEK293T cells transfected with MAML1 cDNA clone (Cat# RC214790) using MegaTran 2.0 (Cat# [TT210002]).