

## Product datasheet for MR212150

### Notch1 (NM\_008714) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Notch1 (NM\_008714) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Notch1  
**Synonyms:** 9930111A19Rik; lin-12; Mis6; N1; Tan1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR212150 representing NM\_008714  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCACGGCTCCTGACGCCCTTGCTCTGCCTAACGCTGCTGCCCGGCTCGCCGCAAGAGGCTTGAGAT  
 GCTCCCAGCCAAGTGGGACCTGCCTGAATGGAGGTAGGTGCGAAGTGCCAGCGGCACTGAAGCCTGTGT  
 CTGCAGCGGAGCCTTTGTGGCCAACGATGCCAGGACTCCAATCCTTGCCTCAGCACACCGTGTAAGAAT  
 GCTGGAACGTGCCACGTTGTGGACCATGGTGGCACTGTGGATTATGCCTGCAGCTGTCCCCTGGGTTTCT  
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ACGGATGAGTGC GCCAGCAGCCCTGTCTGCACAATGGCCACTGCATGGACAAGATCAATGAGTTCCAAT  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR212150 representing NM\_008714  
 Red=Cloning site Green=Tags(s)

MPRLLTPLLCLTLLPALAARGLRCSQPSGTCLNGGRCEVASGTEACVCSGAFVQGRCQDSNPCLSTPCKN  
 AGTCHVVDHGGTVDYACSCPLGFSGPLCLTPLDNAANPCRNNGTCDLLTLTEYKCRCPGWSGKSCQQ  
 ADPCASNPCANGGQCLPFESSYICRCPGFHGPTRQDVNECSQNPGLCRHGGTCHNEIGSYRACRATH  
 TGPHELCPYVPCSPSPCQNGGTCRPTGDTTHEACALPGFAGQNCENVDVDCPGNNCKNGGACVDGVNTYN  
 CRCPPEWTGQYCTEDVDECQLMPNACQNGGTCNTHGGYNCVVCVNGWTGEDCSENIDDCASAAFCGATC  
 HDRVASFYCECPHGRTGLLCHLNDACISNPCNEGSNCDTNPVNGKAICTCPSGYTPACSQDVECALGA  
 NPCEHAGKCLNTLGSFECQCLQGYTGPRCEIDVNECISNPCQNDATCLDQIGEFQCICMPGYEGVYCEIN  
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 MTSGYVCTCREGFSGPNCQTNINECASNPCLNQGTCIDDVAGYKCNCLPYTGATCEVVLAPCATSPCKN  
 SGVCKESEDEYESFSCVCPGWQGTCEVDINECVKSPCRHGASCQNTNGSYRCLCQAGYTGRCNCESDIDD  
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 GERCEGDVNECLSNPCDPRGTQNCVQRVNDFHCECRAGHTGRRCESVINGCRGKPKNGGVCVAASNTAR  
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 SDGHCDQGCNSAECEWDGLDCAEHVPERLAAGTLVLLVLLPPDQLRNNSFHFLREL SHVLHTNVVFKRDA  
 QGQQMIFPYGHEEELRKHPIKRSTVGWATSSLLPGTSGGRQRRELDPMDIRGSIYVLEIDNRQCVQSSS  
 QCFQSATDVAFLGALASLGSNLIPYKIEAVKSEPVPEPLPSQLHLMYAAAAFVLLFFVCGVLLSRKR  
 RRQHGQLWFPEGFVSEASKKKRREPLGEDSVGLKPLKNASDGLMDDNQNEWGDELETKKFRFEPPV  
 LPDLSDQTDHRQWTQQLDAADLRMSAMPTPPQGEVDADCMDVNVVRGPDGFTPLMIASCSGGLETGNS  
 EEEEDAPAVISDFIYQGLHNQTDRTGETALHLAARYSRSDAAKRLLEASADANIQDNMGRTPHAAVS  
 ADAQGVFQILLRNRATDL DARMHDGTTPLILAARLALEGMLDLINSHADVNAVDDL GKSALHWAAAVNN  
 VDAAVVLLKNGANKDMQNNKEETPLFLAAREGSYETAKVLLDHFANRDI TDHMDRLPRDIAQERMHHDIV  
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 KKSQDGGKCLLDSSSMLSPVDSLESHPHYLSDVASPPLLPSPFQQSPSMLSHLPGMPDTHLGISHLNVA  
 AKPEMAALAGGSRLAFEPPLRSHLPVASSASTVLSTNGTGAMNFTVGAPASLNGQCEWLPRLQNGMVP  
 SQYNPLRPGVTPGTLSTQAAGLQHSMMGPLHSSLSTNTLSPIIYQGLPNTRLATQPHLVQTQQVQPQLQ  
 LQPQLQPPSQPHLSVSSAANGHLGRSFLSGEPSQADVQPLGPSSLPVHTILPQESQALPTSLPSSMVPP  
 MTTTQFLTPPSQHSYSSSPVDNTPSHQLQVPEHPFLTPSPESPQWSSSSPHSNI SDWSEGISSPPTTMP  
 SQITHIPEAFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:



ACCN: NM\_008714

ORF Size: 7593 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

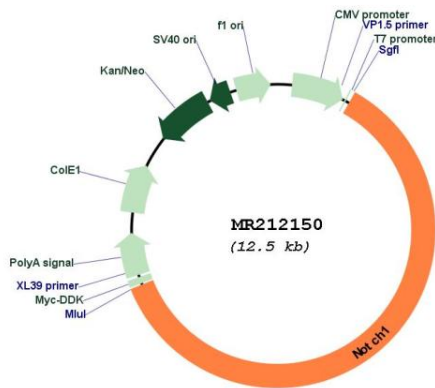
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_008714.2, NP\\_032740.2](#)  
**RefSeq Size:** 9497 bp  
**RefSeq ORF:** 7596 bp  
**Locus ID:** 18128  
**UniProt ID:** [Q01705](#)  
**Cytogenetics:** 2 18.91 cM  
**MW:** 271.3 kDa

**Gene Summary:** Functions as a receptor for membrane-bound ligands Jagged-1 (JAG1), Jagged-2 (JAG2) and Delta-1 (DLL1) to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs. Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting. Involved in the maturation of both CD4(+) and CD8(+) cells in the thymus. Important for follicular differentiation and possibly cell fate selection within the follicle. During cerebellar development, functions as a receptor for neuronal DNER and is involved in the differentiation of Bergmann glia. Represses neuronal and myogenic differentiation. May play an essential role in postimplantation development, probably in some aspect of cell specification and/or differentiation. May be involved in mesoderm development, somite formation and neurogenesis. May enhance HIF1A function by sequestering HIF1AN away from HIF1A. Required for the THBS4 function in regulating protective astrocytogenesis from the subventricular zone (SVZ) niche after injury. Involved in determination of left/right symmetry by modulating the balance between motile and immotile (sensory) cilia at the left-right organiser (LRO). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR212150