

## Product datasheet for MR223369

### Notch4 (NM\_010929) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Notch4 (NM_010929) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Notch4
Synonyms:	Int-3; Int3; N4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223369 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATCGACCCCCAGTTGCTGCTGCTGCTGCTCTTGCCACTCAATTTCCCTGTCATCCTGACCAGAGAGCTTC  
TGTGTGGAGGATCCCCAGAGCCCTGTGCCAACGGAGGCACCTGCCTGAGGCTATCTCGGGGACAAGGGAT  
CTGCCAGTGTGCCCTGGATTTCTGGGTGAGACTTGCCAGTTTCCTGACCCCTGCAGGGATACCCAATC  
TGCAAGAAATGGTGGCAGCTGCCAAGCCCTGCTCCACACCCCCAAGCTCCCGTAGTCTACTTCTCCAC  
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GCTCTGTCCACCTTCTTTCTGTTCCAACGGGGTCACTGCTATGTTACAGGCTCAGGCCGCCACAGTGC  
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CTTGCAACCTTCCACTGCCTCTGCCACCAGGCTTGAAGGGAGGCTCTGTGAGGTGGAGGTCAATGAGT  
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 AGAAATCTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223369 protein sequence  
 Red=Cloning site Green=Tags(s)

MQPQLLLLLLPLNFPVILTRELLCGGSPEPCANGGTCLRLSRGQICQCAPGFLGETCQFPDPCRDTQL  
 CKNGGSCQALLPTPPSSRSPTSPLTPHFSTCPSGFTGDRQCQTHLEELCPPSFCSSNGGHCYVQASGRPQC  
 SCEPGWTEQCQLRDFCSANPCANGGVCLATYPQIQCRCPGFEGHTCERDINECFLEPGPCPQGTSCHN  
 TLGSYQCLCPVQEQPKLRKACPPGSCLNGGTCQLVPEGHSTFHLCLCPPGFTGLDCENMPDDCVRH  
 QCQNGATCLDGLDTYTCLCPKTKGWDCSEIDICEARGPPRCRNGGTCQNTAGSFHCVCVSWGAGGACE  
 ENLDDCAAATCAPGSTCIDRVGSFSLCPPGRTGLLCHLEDMCLSQPCHVNAQCSTNPLTGSTLCLCQPG  
 YSGSTCHQDLDECQMAQQGSPCEHGGSCINTPGSFNCLCLPGYTGSRCEADHNECLSQPCHPGSTCLDL  
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 CQPGQQCQGEHRAPCLCPDGSPGCVPAEDNCPCHHGHGCRSLCVCDEGWTGPECETELGGCISTPCAHS  
 GTCHPQSGYNTCPAGYMGLTCSEEVTAACHSGPCLNGGSCSIRPEGYSCTCLPSHTGRHCQTAVDHCVS  
 ASCLNGGTCVNKPGTFFCLCATGFQGLHCEKTNPSCADSPCRNKATCQDTPRGARCLCSPGYTGSSCQT  
 LIDLCAKPKPHTARCLQSGPSFQCLCLQGTGALCDFPLSCQKAAMSQGTIEISGLCQNGGLCIDTGSSY  
 FRCRPPGFQGKLCQDNVNPCEPNPCHHGSTCVPQPSGYVCQCAPGYEQNCQSKVLDACQSQPCHNHGTCT  
 SRPGGFHCACPPGFVGLRCEGDVDECLDRPCHPSGTAACHSLANAFYCQCLPGHTGQRCEVEMDLCQSQP  
 CSNGGSCIEITGPPPGFTCHCPKGFEGPTCSHKALSCGIHHCHNGGLCLPSPKPGSPPLCACLSGFGGPD  
 CLTPPAPPGCGPPSPCLHNGTCTETPGLGNPFGQCTCPPDSPGPRCQRPASGCEGRGGDGTCDAGCSGP  
 GGDWDGGDCSLGVPDPWKGCPHPSQCWLLFRDGRCHPQCDSEELFDGYDCEIPLTCIPAYDQYCRDHFH  
 NGHCEKGCNNAECGWDGDCRPEGEDSEGRPSLALLVVLRPPALDQQLLALARVLSLTLRVGLWVRKDSE  
 GRNMVFPYPGTRAKEELSGARDSSSWERQAPPTQPLGKETESLGAGFVVVMGVDLSRCGPEHPASRCPWD  
 SGLLLRFLAAMA AVGALEPLLPGPLLAHPQAGTRPPANQLPWPILCSPVVGVLLLALGALLVLQIRRR  
 RREHGALWLPFGFIRRPQAQAPHRRRPLGEDNIGLKALKPEAEVDEDGVAMCSGPEEGEAETASASR  
 CQLWPLNSSCGELPQAAMLTPPQECESEVLDVDTGPDGVTPLMSAVFCGGVQSTTGASPQRLGLGNLEP  
 WEPLLDRGACPAHTVGTGETPLHLAARF SRPTAARRLLEAGANPNQPDRAGRTPLHTAVAADAREVCQL  
 LLASRQTSVDARTEDGTTPLMLAARLAVEDLVEELIAARADV GARDKRGKTALHWA AVNNARAARSLQ  
 AGADKDAQDSREQTPLFLAAREGAVEVAQLLLELGAARGLRDQAGLAPGDVARQRSHWDLTLLEGAGPT  
 TQEARAHARTTPGGGAAPRCRTL SAGARPRGGGACLQARTWSVDL GARGGK VYARCRSRSGSCGGPTTRG  
 RRF SAGSRGRRGARASQDDWPRDWWVALEACGSACSAPIPPPSLTPSPERGSPQVAVGLPVHQEIPLNSV  
 RNLN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_010929

**ORF Size:** 5895 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\\_010929.2](#), [NP\\_035059.2](#)

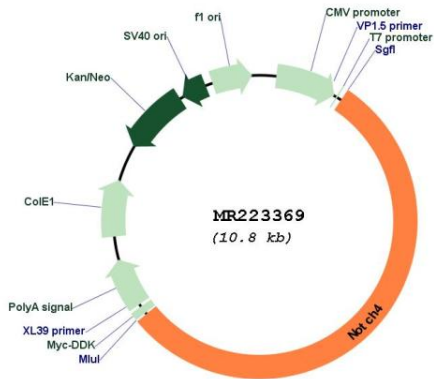
**RefSeq Size:** 6604 bp

**RefSeq ORF:** 5895 bp

**Locus ID:** 18132

**UniProt ID:** [P31695](#)  
**Cytogenetics:** 17 18.15 cM  
**MW:** 206.7 kDa  
**Gene Summary:** Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 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 (By similarity). May regulate branching morphogenesis in the developing vascular system.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR223369