

## Product datasheet for RC215107

### NOTCH2 (NM\_024408) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NOTCH2 (NM_024408) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NOTCH2
Synonyms:	AGS2; HJCYS; hN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215107 representing NM_024408 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCGCCCTGCGCCCCGCTCTGCTGTGGGCGCTGCTGGCGCTCTGGCTGTGCTGCGCGGCCCGCCGCGC  
ATGCATTGCAGTGTGAGATGGCTATGAACCTGTGTAATGAAGGAATGTGTGTACCTACCACAATGG  
CACAGGATACTGCAAATGTCCAGAAGGCTTCTTGGGGGAATATTGTCAACATCGAGACCCCTGTGAGAAG  
AACCGCTGCCAGAATGGTGGGACTTGTGTGCCAGGCCATGCTGGGAAAGCCACGTGCCGATGTGCCT  
CAGGGTTTACAGGAGAGGACTGCCAGTACTCAACATCTCATCCATGCTTTGTGTCTCGACCTGCCTGAA  
TGGCGGCACATGCCATATGCTCAGCCGGGATACCTATGAGTGCACCTGTCAAGTCGGGTTTACAGGTAAG  
GAGTGCCAATGGACGGATGCCTGCCTGTCTCATCCCTGTGCAAATGGAAGTACCTGTACCACTGTGGCCA  
ACCAGTTCTCCTGCAAATGCCTCACAGGCTTACAGGGCAGAAATGTGAGACTGATGTAATGAGTGTGA  
CATTCCAGGACTGCCAGCATGGTGGCACCTGCCTCAACCTGCCTGGTTCCTACCAGTGCCAGTGCCCT  
CAGGGCTTACAGGCCAGTACTGTGACAGCCTGTATGTGCCCTGTGCACCTCACCTTGTGTCAATGGAG  
GCACCTGTCGGCAGACTGGTACTTCACTTTTGTGAGTCAACTGCCTTCCAGGTTTGAAGGGAGCACCTG  
TGAGAGGAATATTGATGACTGCCCTAACCACAGGTGTGAGAATGGAGGGGTTTGTGTGGATGGGGTCAAC  
ACTTACAACCTGCCGCTGTCCCCACAATGGACAGGACAGTTCTGCACAGAGGATGTGGATGAATGCCTGC  
TGCAGCCCAATGCCTGTCAAATGGGGCACCTGTGCCAACCGCAATGGAGGCTATGGCTGTGTATGTGT  
CAACGGCTGGAGTGGAGATGACTGCAGTGAACAATTGATGATTGTGCCTTCGCCTCCTGTACTCCAGGC  
TCCACCTGCATCGACCGTGTGGCCTCCTTCTTGCATGTGCCAGAGGGGAAGGCAGGTCTCCTGTGTC  
ATCTGGATGATGCATGCATCAGCAATCCTTGCCACAAGGGGCACTGTGTGACACCAACCCCTAAATGG  
GCAATATATTTGCACCTGCCACAAGGCTACAAAGGGGCTGACTGCACAGAAGATGTGGATGAATGTGCC  
ATGGCCAATAGCAATCCTTGTGAGCATGCAGGAAAATGTGTGAACACGGATGGCGCCTTCCACTGTGAGT  
GTCTGAAGGGTTATGCAGGACCTCGTTGTGAGATGGACATCAATGAGTGCATTCAGACCCCTGCCAGAA  
TGATGCTACCTGTCTGGATAAGATTGGAGGCTTCACATGTCTGTGCATGCCAGGTTTCAAAGGTGTGCAT



[View online »](#)

TGTGAATTAGAAATAAATGAATGTCAGAGCAACCCCTGTGTGAACAATGGGCAGTGTGTGGATAAAGTCA  
 ATCGTTTTCCAGTGCCTGTGCCTCCTGGTTTCACTGGGCCAGTTTCCAGATTGATATTGATGACTGTTC  
 CAGTACTCCGTGTCTGAATGGGGCAAAGTGTATCGATCACCCGAATGGCTATGAATGCCAGTGTGCCACA  
 GGTTTCACTGGTGTGTGTGTGAGGAGAACATTGACAACGTGACCCCGATCCTTGCCACCATGGTCAGT  
 GTCAGGATGGTATTGATTCTACACCTGCATCTGCAATCCCGGTACATGGGGCCATCTGCAGTGACCA  
 GATTGATGAATGTTACAGCAGCCCTTGCCTGAACGATGGTTCGCTGCATTGACCTGGTCAATGGTACCAG  
 TGCAACTGCCAGCCAGGCAGTCAGGGTTAATTGTGAAATTAATTTTGATGACTGTGCAAGTAAACCCCT  
 GTATCCATGGAATCTGTATGGATGGCATTAAATCGCTACAGTTGTGTCTGCTCACCAGGATTCACAGGGCA  
 GAGATGTAACATTGACATTGATGAGTGTGCCTCCAATCCCTGTGCAAGGGTGAACATGTATCAACGGT  
 GTGAATGGTTTCCGCTGTATATGCCCGAGGGACCCCATCACCCAGCTGCTACTCACAGGTGAACGAAT  
 GCCTGAGCAATCCCTGCATCCATGGAACTGACTGGAGGTCTCAGTGGATATAAGTGTCTCTGTGATGC  
 AGGCTGGTTGGCATCACTGTGAAGTGGACAAAAATGAATGCCTTTGCAATCCATGCCAGAATGGAGGA  
 ACTTGTGACAATCTGGTGAATGGATACAGGTGACTTGAAGAAGGGCTTAAAGGCTATAACTGCCAGG  
 TGAATATTGATGAATGTGCCTCAAATCCATGCCTGAACCAAGGAACCTGCTTTGATGACATAAGTGGCTA  
 CACTTGCCACTGTGTGCTGCCATACACAGGCAAGAATTGTCAGACAGTATTGGCTCCCTGTTCCCAAAC  
 CCTGTGAGAATGCTGCTGTTTGC AAAGAGTACCAAATTTTGAAGTATACTTGCTTGTGTGCTCCTG  
 GCTGGCAAGGTACAGCGGTGACATTGACATTGACGAGTGTATCTCCAAGCCCTGCATGAACCATGGTCT  
 CTGCCATAACACCCAGGGCAGCTACATGTGTGAATGTCCACCAGGCTTCACTGGTATGGACTGTGAGGAG  
 GACATTGATGACTGCCTTGCCAATCCTTGCCAGAATGGAGGTTCTGTATGGATGGAGTGAATACTTTCT  
 CCTGCCTCTGCCTTCCGGGTTTCACTGGGGATAAGTGCCAGACAGACATGAATGAGTGTCTGAGTGAACC  
 CTGTAAGAATGGAGGGACCTGCTGACTACGTCAACAGTTACTTGAAGTGCCAGGCAGGATTTGAT  
 GGAGTCCATTGTGAGAACACATCAATGAGTGCAGTGCAGGCTCCTGTTCAATGGTGGCAGATGTGTTG  
 ATGGGATTAACCTCTTCTTGTGCTTGTGCTTGTGGGTTTCACTGGATCCTTCTGCCTGATGAGATCAA  
 TGAATGCAGCTCTCATCCATGCCTGAATGAGGGAACTGTGTTGATGGCTGGGTACCTACCGCTGCAGC  
 TGCCCTTGGGCTACACTGGGAAAACTGTGAGCCCTGGTGAATCTCTGCAAGTGGTCTCCATGTA AAA  
 ACAAGGTA CTTCGCTT CAGAAAAAGCAGAGTCCAGTGCCTATGTCCATCTGGATGGGCTGGTGCCTA  
 TTGTGACGTGCCAATGTCTCTTGTGACATAGCAGCCTCCAGGAGAGGTGTGCTTGTGAACACTTGTGC  
 CAGCACTCAGGTGTCTGCATCAATGCTGGCAACACGCATTACTGTGAGTGCCTTGGGCTATACTGGGA  
 GCTACTGTGAGGAGCAACTCGATGAGTGTGCGTCCAACCCCTGCCAGCACGGGGCAACATGCAGTGACTT  
 CATTGGTGGATACAGATGCGAGTGTGCCAGGCTATCAGGTGTCAACTGTGAGTATGAAGTGGATGAG  
 TGCCAGAATCAGCCCTGCCAGAATGGAGGCACCTGTATTGACCTGTGAACCATTTCAAGTGTCTTGGC  
 CACCAGGCACTCGGGCCTACTCTGTGAAGAGAATGATGACTGTGCCGGGGTCCCAATTGCCTTAA  
 TGGTGGTCAAGTGCATGGATAGGATTGGAGGCTACAGTTGTGCTGCTTGCCTGGCTTGTGGGAGCGT  
 TGTGAGGGAGACATCAACGAGTGCCTCTCCAACCCCTGCAGCTCTGAGGGCAGCCTGGACTGTATACAGC  
 TCACCAATGACTACCTGTGTGTTGCCGTAGTGCCTTACTGGCCGGCACTGTGAAACCTTCGTGATGT  
 GTGTCCCAGATGCCCTGCCTGAATGGAGGGACTTGTGCTGTGGCCAGTAAACATGCCTGATGGTTTCAAT  
 TGCCGTGTCCCCGGGATTTCCGGGGCAAGGTGCCAGAGCAGCTGTGGACAAGTAAATGTAGGAAGG  
 GGGAGCAGTGTGTGCACACCGCCTTGGACCCCGCTGCTTCTGCCCCAGTCCCCGGGACTGCGAGTCAAG  
 CTGTGCCAGTAGCCCTGCCAGCACGGGGCAGCTGCCACCCTCAGCGCCAGCCTCCTTATTACTCCTGC  
 CAGTGTGCCCCACCATTCTCGGGTAGCCGCTGTGAACCTACACGGCACCCCCAGCACCCCTCCTGCCA  
 CCTGTCTGAGCCAGTATTGTGCCGACAAAGCTCGGGATGGCGTCTGTGATGAGGCCTGCAACAGCCATGC  
 CTGCCAGTGGGATGGGGTACTGTTCTCTCACCATGGAGAACCCTGGGCCAACTGCTCCTCCCCACTT  
 CCCTGCTGGGATTATATCAACAACCAGTGTGATGAGCTGTGCAACACGGTCGAGTGCCTGTTTGACAAC  
 TTGAATGCCAGGGGAACAGCAAGACATGCAAGTATGACAAACTGTGACAGACCCTTCAAAGACAACCA  
 CTGTGACCAGGGTGAACAGTGAAGTGTGGTGGGATGGGCTGGACTGTGCTGCTGACCAACCTGAG  
 AACCTGGCAGAAGTACCCTGGTATTGTGGTATTGATGCCACCTGAACAACCTGCTCCAGGATGCTCGCA  
 GCTTCTTGGGGCACTGGGTACCCTGCTCCACACCAACCTGCGCATTAAAGCGGACTCCCAGGGGAACT  
 CATGGTGTACCCCTATTATGGTGAAGTCAAGTGTGATGAGTGAAGAAACAGAGGATGACACGCAGATCCCT  
 CCTGGTGAACAAGAACAGGAGGTGGCTGGCTCTAAAGTCTTTCTGAAATGACAACCGCCAGTGTGTT  
 AAGACTCAGACCACTGCTTCAAGAACACGGATGCAGCAGCAGCTCTCCTGGCCTCTCACGCCATACAGGG  
 GACCCTGTACACCTCTTGTGCTGTGCTGAGTGAATCCCTGACTCCAGAACGCACTCAGCTCCTCTAT  
 CTCCTTGTGCTGTTGTGTCATCATTCTGTTTATTATTCTGCTGGGGTAAATCATGGCAAAACGAAAGC

GTAAGCATGGCTCTCTCTGGCTGCCTGAAGGTTTCACTCTTCGCCGAGATGCAAGCAATCACAAGCGTCCG  
 TGAGCCAGTGGGACAGGATGCTGTGGGGCTGAAAAATCTCTCAGTGCAAGTCTCAGAAGCTAACCTAATT  
 GGTACTGGAACAAGTGAACACTGGGTCGATGATGAAGGGCCCCAGCCAAAGAAAGTAAAGGCTGAAGATG  
 AGGCCTTACTCTCAGAAGAAGATGACCCATTGATCGACGGCCATGGACACAGCAGCACCTTGAAGTGC  
 AGACATCCGTAGGACACCATCGCTGGCTCTCACCCCTCCTCAGGCAGAGCAGGAGGTGGATGTGTAGAT  
 GTGAATGTCCGTGGCCAGATGGCTGCACCCATTGATGTTGGCTTCTCTCCGAGGAGGCAGCTCAGATT  
 TGAGTGATGAAGATGAAGATGCAGAGGACTTTCTGCTAACATCATCACAGACTTGGTCTACCAGGGTGC  
 CAGCCTCCAGGCCAGACAGACCGGACTGGTGAGATGGCCCTGCACCTTGCAGCCCGCTACTCACGGGCT  
 GATGCTGCCAAGCGTCTCCTGGATGCAGGTGCAGATGCCAATGCCAGGACAACATGGGCCGCTGTCCAC  
 TCCATGCTGCAGTGGCAGCTGATGCCAAGGTGTCTTCCAGATTCTGATTCGCAACCGAGTAACTGATCT  
 AGATGCCAGGATGAATGATGGTACTACACCCCTGATCCTGGTGGCCGCTGGCTGTGGAGGGAATGGTG  
 GCAGAAGTGAATGCAAGCGGATGTGAATGCAGTGGATGACCATGGAAAATCTGCTTCTACTGGG  
 CAGCTGCTGTCAATAATGTGGAGGCAACTTTTTGTTGTTGAAAAATGGGGCCAACCGAGACATGCAGGA  
 CAACAAGGAAGAGACACCTCTGTTTCTTGCTGCCCGGGAGGGGAGCTATGAAGCAGCCAAGATCCTGTTA  
 GACCATTTTGCCAAATCGAGACATCACAGACCATATGGATCGTCTTCCCCGGGATGTGGCTCGGGATCGCA  
 TGACCATGACATTGTGGCCTTCTGGATGAATACAATGTGACCCCAAGCCCTCCAGGCACCGTGTGTGAC  
 TTCTGCTCTCTCACCTGTCTGTGGGCCAACAGATCTTTCCTCAGCCTGAAGCACACCCCAATGGGC  
 AAGAAGTCTAGACGGCCAGTGCCAAGAGTACCATGCCTACTAGCCTCCCTAACCTTGCCAAGGAGGCAA  
 AGGATGCCAAGGGTAGTAGGAGGAAGAAGTCTCTGAGTGAGAAGGTCCAAGTGTCTGAGAGTTTCAAGTAA  
 TTTATCCCCTGTTGATCCCTAGAATCTCTCACACGTATGTTTCCGACACCACATCCTCTCCAATGATT  
 ACATCCCCTGGGATCTTACAGGCCTCACCAACCCTATGTTGGCCACTGCCGCCCTCTGCCCCAGTCC  
 ATGCCCAGCATGCACTATCTTTTTCTAACCTTCATGAAATGCAGCCTTTGGCACATGGGGCCAGCACTGT  
 GCTTCCCCTCAGTGAGCCAGTTGCTATCCCACCACCACATTGTGTCTCCAGGCAGTGGCAGTGTGGAAGC  
 TTGAGTAGGCTCCATCCAGTCCCAGTCCCAGCAGATTGGATGAACCGCATGGAGGTGAATGAGACCCAGT  
 ACAATGAGATGTTTGGTATGGTCTGGCTCCAGCTGAGGGCACCCATCCTGGCATAGTCCCCAGAGCAG  
 GCCACCTGAAGGGAAGCACATAACCACCCTCGGGAGCCCTTGCCCCCATTGTGACTTTCCAGCTCATC  
 CCTAAAGGCAGTATTGCCAACCAGCGGGGCTCCCCAGCCTCAGTCCACCTGCCCTCCAGCTGTTGCGG  
 GCCCCTGCCACCATGTACCAGATTCCAGAAATGGCCCGTTTGGCCAGTGTGGCTTTCCCACTGCCAT  
 GATGCCCCAGCAGGACGGGCAGGTAGCTCAGACCATTCTCCAGCCTATCATCTTCCAGCCTCTGTG  
 GGCAAGTACCCACACCCCTTACAGCACAGTTATGCTTCTCAAATGCTGCTGAGCGAACACCCAGTC  
 ACAGTGGTCACCTCCAGGGTGGCATCCCTACCTGACACCATCCCAGAGTCTCCTGACCAGTGGTCAAG  
 TTCATACCCCACTCTGCTTCTGACTGGTCAGATGTGACCACCAGCCCTACCCCTGGGGGTGCTGGAGGA  
 GGTGAGCGGGGACCTGGGACACACATGTCTGAGCCACCACACAACAACATGCAGGTTTATGCG

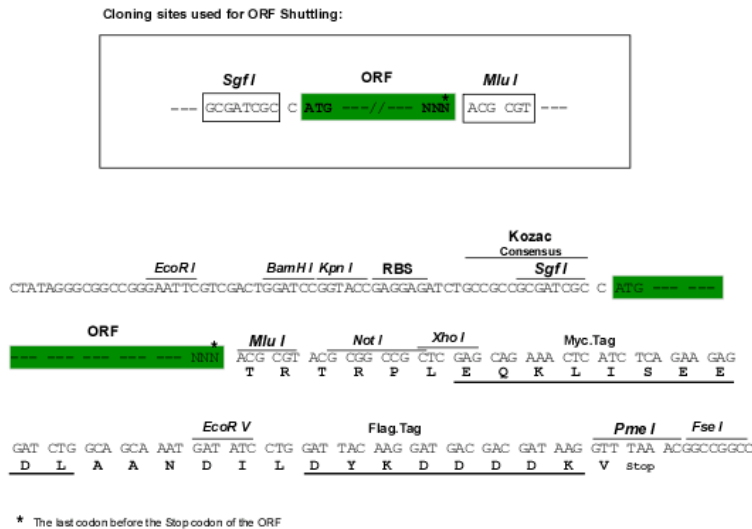
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215107 representing NM\_024408  
 Red=Cloning site Green=Tags(s)

MPALRPALLWALLALWLCCAAPAHALQCRDGYEPCVNEGMCVTYHNGTG YCKCPEGFLGEYCQHRDPCEK  
 NRCQNGGTCVAQAMLGKATCRCASGFTGEDCQYSTSHPCFVSRPCLNGGTCHMLSRDYEECTCQVGF  
 TGK  
 ECQWTDACL SHPCANGSTCTTVANQFSCKCLTGFTGQKCE TDVNECDIPGHCQHGGTCLNLP  
 GSYQCQCP  
 QGFTGQYCDL YVPCAPSPCVNGGTCRQTGDFTFECNCLPGFEGSTCERNIDDCPNHRCQNGG  
 VCV  
 TYNCRCPQWTGQFCTEDVDELLQPNACQNGGTCANRNGGYGCVVNGWSGDDCSENIDDCAFASCTPG  
 STCIDRVASFSCMPEGKAGLLCHLDDACISNPCHKGALCDTNPLNGQYICTCPQYK  
 GADCTEDVDECA  
 MANSNPCEHAGKCVNTDGAHFCECLKGYAGPRCEMDINECHSDPCQNDATCLDKIGGFTCL  
 CMPGFKGVH  
 CELEINECQSNPCVNNQCVDKVNRQCLCPPGFTGPVCQIDIDDCSSTPCLNGAKCIDHPNGYECQ  
 CAT  
 GFTGVLCEENIDNCDPDPCHHGQCDGIDSYTCICNPGYMGAIQSDQIDECYSSPLNDGRCIDL  
 VNGYQ  
 CNCQPGTSGVNCEINFDDCASNPCIHGICMDGINRYSVCVSPGFTGQRCNIDIDECASNPCR  
 KGATCING  
 VNGFRCICPEGPHHPSCYSQVNECLSNPCIHGNCCTGGLSGYKCLCDAGWVGINCEVDKNECL  
 SNPCQNGG  
 TCDNLVNGYRCTCKKGFKGYNCQVNIDECASNPLNQGTCFDDISGYTCHCVLPYTGKNCQTVL  
 APCSPN  
 PCENA AVCKESP NFESY TCLCAPGWQGRCTIDIDEICISKPCMNHGLCHNTQGSYMCECP  
 PPGFSGMDC  
 DEEDDLANPCQNGGSCMDGVNTFSCLCLPGFTGDKCQTMNECLSEPCKNGGTCSDYVNSY  
 TCKCQAGFD  
 GVHCENINECTESSCFNGGTCVDGINSF SCLCPVGF TGSFLHEINECSSHPCLNEGTCVDGL  
 GTYRCS  
 CPLGYTGKNCQTLVNLCSRSPCKNKGTCVQKKAESQCLCPSGWAGAYCDVNPVSCDIAASRR  
 GVLVEHLC  
 QHSGVCINAGNTHYCQPLGYTGSYCEEQLDECASNPCQHGATCSDFIGGYRCECVPGYQV  
 NCEYEVDE  
 CQNQPCQNGGTCIDL VNHFKCSCPPGTRGLLCEENIDDCARGPHCLNGGQCMDRIGGYS  
 CRCLPGFAGER  
 CEGDINECLSNPCSEGLSDCIQLTNDYLCVCRSAFTGRHCETFVDVCPQMPCLNGGTC  
 AVASNMPDGF  
 IRCPPGFSGARCQSSCGQVKCRKGEQCVHTASGPRCFCPSPRDCESGCASSPCQHGGSC  
 HPQRPPYSC  
 QCAPPFSGSRCELYTAPPSTPPATCLSQYCADKARDGVCD EACNSHACQWDGGDCSLTMEN  
 PWANCSSPL  
 PCWDYINNQDEL CNTVECLFDNFECQGNKTKYDKYCADHFKDNHCDQGCNSEECGWDGL  
 DCAADQPE  
 NLAEGTLVIVVLMPEQLLQDARSFLRALGTL LHTNLR IKRDSQGELMVYPYGEKSAAMKK  
 QRMTRRSL  
 PGEQEVEVAGSKVFL EIDNRQCVQSDHCFKNTDAAAALLASHAIQGTLSYPLVSVVSE  
 LTPERTQLLY  
 LLAVAVVILFIILLGVIMAKRKRKHGSLWLP EGFTLRRDASNHKRREPVGQDAVGLKNL  
 SVQVSEANLI  
 GTGTSEHWVDDEGPQPKVKADEALL SEEDPIDRRPWTQHL EAADIRRTPSLALTPPQAE  
 QEVLD  
 VNVVRGPDGCTPLMLASLRGGSSDL SDEDEDAEDSSANIITDLVYQGASLQAQTDRT  
 GEMALHLAARYSRA  
 DAAKRLLDAGADANAQDNMGRCP LHAAVAADAQGVFQILIRNRVTDLDARMNDGTTPL  
 ILAARLAVEGMV  
 AELINCQADVNAVDDHGKSALHWA AAVNNVEATLLLLKNGANRDMQDNKEETPLFLA  
 AREGSYEAAKILL  
 DHFANRDITDHMDRLPRDVARDRMHHDIVRL LDEYNVTPSPPGTVLTSALSPVICGPN  
 RSFLSLKHTPMG  
 KKSRRPSAKSTMPTSLPNLAKEAKDAKGSRRKSLSEKVQLSESSVTLSPVDSLES  
 PHTYVSDTSSPMI  
 TSPGILQASPNPLATAAPPAPVHAQHALSFSNLHEMQPLAHGASTVLPVSQLLSHHHI  
 VSPGSGSAGS  
 LSRLHPVPVPADWMNRMEVNETQYNEMFGMVLAPAEGTHPGIAPQSRPPEGKHITPRE  
 LPPIVTFQLI  
 PKGSIAQAGAPQPQSTCPPAVAGPLPTMYQIPEMARLPSVAFPTAMPPQDQQAQVIL  
 PAYHPPASV  
 GKYP T PPSQHSYASSNAERTPSHSGHLQGEHPYLTPSPESPQWSSSSPHSASDWS  
 DVTTSP TPGGAGG  
 GQRGPGTHMSEPPHNMQVYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

**ACCN:**

NM\_024408

**ORF Size:**

7413 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).

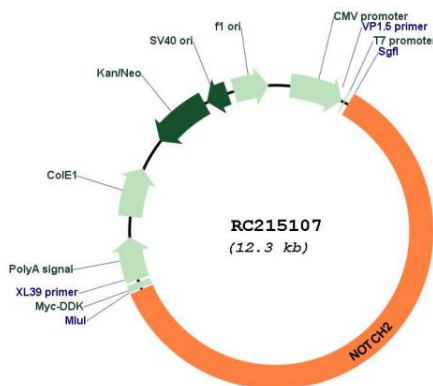
**Reconstitution Method:**

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\\_024408.4](#)  
**RefSeq Size:** 11474 bp  
**RefSeq ORF:** 7416 bp  
**Locus ID:** 4853  
**UniProt ID:** [Q04721](#)  
**Cytogenetics:** 1p12  
**Domains:** NL, EGF\_CA, ANK, EGF, EGF  
**Protein Families:** Druggable Genome, Transmembrane  
**Protein Pathways:** Dorso-ventral axis formation, Notch signaling pathway  
**MW:** 265.9 kDa

**Gene Summary:** This gene encodes a member of the Notch family. Members of this Type 1 transmembrane protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats, and an intracellular domain consisting of multiple, different domain types. Notch family members play a role in a variety of developmental processes by controlling cell fate decisions. The Notch signaling network is an evolutionarily conserved intercellular signaling pathway which regulates interactions between physically adjacent cells. In *Drosophila*, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signaling pathway that plays a key role in development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remain to be determined. This protein is cleaved in the trans-Golgi network, and presented on the cell surface as a heterodimer. This protein functions as a receptor for membrane bound ligands, and may play a role in vascular, renal and hepatic development. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

### Product images:



Circular map for RC215107