

Product datasheet for **RR201721**

Npdc1 (NM_001004231) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npdc1 (NM_001004231) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Npdc1
Synonyms:	MGC94179
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR201721 representing NM_001004231 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCGACGCCGTCCTCCGCCTTCCCCGCGGCACCTGCGGCTGCTGCGGCTGCTGCTCTCCGGCCTTA
 TTCTGGGAGCGGCCCTGAATGGTGCCACCGCCCGCCCGGATGCTCCACCTGCCCTGGAAGCCTGGA
 TTGTGCACTGAAGAGGCGGGCAAAGTCCCCACAGGGGCACATGCCTGCGGACCATGCCTTCAGTCCTTC
 CAGGAGGACCAGAGAGGGGTCTGTGTCCGAGGAAGCACCAATCTTCTGGGAGGGCCTGCCCCAGCCCA
 GACTGGAAGAGGAGATCGATTCTCTGGCCCGGAGCTGGCACTGAAGGAGAAGGAGGCTGGGCACCCAAG
 GCTCACAGCACAGCCCTTGCCTGAGGCTTCCAGAAAGCTCCTGGAACCTGCAGCTACCCTGGGATTCTCA
 CAGTGGGGTCAACAACCTGGAGCCTGGCCTCCCCTCTACTCACGGAACCTTTGCCCCACACCCACACCT
 CCTTGAGCGCCCGGGCATCCTCTGGGCCTGTGCAGATGTCCCCGCTGGAGCCTCAAGGCCGTGGAATGG
 CCTCGCCCTTGTACTGATCCTGGCGTTCTGCTTGCAAGCACAGCTGCACTGGCTGTGGCAGCCCTCTGC
 TGGTGTAGGCTTCAGCGAGAGATCCGCCTGACTCAGAAGGCTGACTACACTGCCACAGCAAGGGGCCCA
 CTTACCAACAACACCACGAATCTCGCCCGGGACGAGCGTCTGGCGCATAGCGCAGAGATGTATCATT
 TCAGCACCAGAGACAGCAGATGCTGTGCTGGAGCGGCATAAGGACCCTCAAAGGAAGTGGAGTCAGCC
 TCCTCCGATGAGGAGAATGAAGATGGTGACTTCACTGTGTACGAGTGCCAGGCCTGGCGCCAACAGGGG
 AGATGGAGGTGCGCAATCCAAGTGTGACCATTCACGCTGTACGACCAAGTGCCTGGTCCCCATTCTCT
 ACCACCACTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR201721 representing NM_001004231

Red=Cloning site Green=Tags(s)

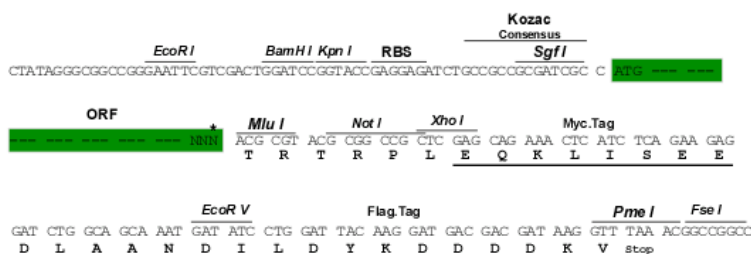
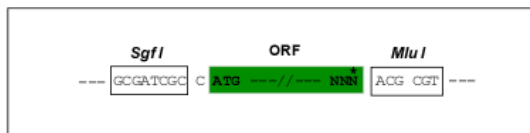
MATPVPPSPRHLRLLRLLSGLILGAALNGATARRPDAPTCPSGLDCALKKRAKCPPGAHACGpclQSF
QEDQRGVcVPRKHQSSGEGLPQPRLEEEIDSLARELALKEKEAGHPRLTAQPLPEASQKLEPAATLGFs
QWQQLEPLGSTHGTSSPTHTSLSARASSSGVQMSPLEPQGRGNGLALVILAFCLASTAALAVAALC
WCRLQREIRLTKQADYATAKGTSPPTTRISPGMDRLSHAEMHYHQHQRQMLCLERHKDPPKELESA
SSDEENEDGDFTVYECPLAGTAGEMEVNRNPLFDHSTLAPVPGPHSSPPLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001004231

ORF Size: 993 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_001004231.1, NP_001004231.1

RefSeq Size: 1386 bp

RefSeq ORF: 996 bp

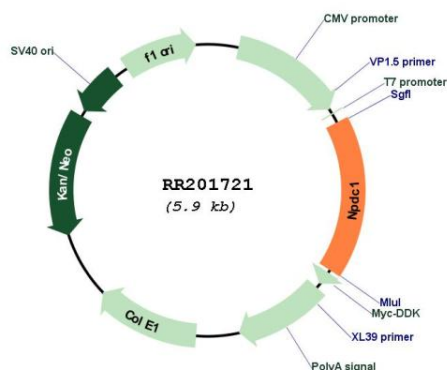
Locus ID: 296562

Cytogenetics: 3p13

MW: 35.5 kDa

Gene Summary: human homolog regulates retinoic acid mediated signaling; plays a role in regulation of neuronal cell proliferation [RGD, Feb 2006]

Product images:



Circular map for RR201721