

Product datasheet for **MR204896**

Npdc1 (NM_008721) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Npdc1
Synonyms:	AI314472; NPDC-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR204896 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

ATGGCGACGCCCCTCCCTCCGCTTCCCCGCGGCACCTGCGGCTGCTACGGCTGCTGCTCTCCGGCCTCA
TCCTGGGAGCGGCCCTGAATGGTGCCACCGCCCGCCCGGATGCTACCACCTGTCTGGAAGCCTGGA
TTGTGCACTGAAGAGCGGGGCAAAATGCCACAGGGGCACATGCCTGTGGACCATGCCTTCAGTCCTTC
CAGGAAGACCAGCAGGGTTCTGTGTGCCAAGGAAACACCTATCTTCTGGGAGGGCCTGCCCGAGCCCA
GACTGGAAGAGGAGATCGATTCTCTGGCCAGGAAGTGGCACTGAAGGAGAAGGAGCGGGGCACTCAAG
GCTGACCGCACAGCCCTTGCTTGAGGCTGCGCAGAAGCTCCTGGAGCCTGCAGCTACCCTGGGATTCTCA
CAGTGGGGTCAACGACTGGAGCCCGGGCTCCCTCTACTCATGGAACCTCTTCACCTATACCCATACTT
CCTTGAGTTCCCGAGCATCCTCTGGACCTGTGCAGATGTCCCGCTGGAGCCCGAGGAAGGCATGGGAA
TGGCCTCACCTTGTGCTGATCCTGGCTTTCTGCTTAGCAAGCTCAGCCGCCCTGGCTGTGGCAGCCCTC
TGCTGGTGTAGGCTTCAGCGAGAGATCCGCTGACTCAGAAGGCTGACTATGCTGCCACAGCTAAGGGGC
CCACTTCACCTTCAACACCACGAATCTCGCTGGGGATCAGCGGCTGGCACACAGTGCTGAGATGTATCA
TTATCAGCACCAGACAGCAGATGCTGTGCCTGGAGCGGCATAAGGAACCTCCAAAGGAAGTAGAGTCA
GCTTCCTCCGATGAGGAAATGAAGATGGCGACTTCACTGTGTATGAATGCCAGGCCCTGGCGCCAACAG
GGGAGATGGAGGTGCGCAACCACTGTTTGACCATTCCACGCTGTACGACCAAGTGCCTGGTCCCCATT
CTTGCCCGCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR204896 protein sequence
Red=Cloning site Green=Tags(s)

MATVPVPPSPRHLRLRLLLSGLILGAALNGATARRPDATTCPSGLDCALKRRRAKCPPGAHACGPCLQSF
 QEDQRGFCVPRKHLSSGGLPQPRLEEEIDSLAQELALKEKEAGHSRLTAQPLLEAAQKLLPEAATLGF
 QWQRLPGLPSTHGTSSPIHTLSLRASSGPGQMSPLPQHRNGNGLTLVLILAFLASSAALAAVAL
 CWCRLQREIRLTQKFAALAKGPTSSPGTSPGDQRLAHSAEMHYHQHQRMQLCLERHKPEPKLES
 ASDENEEDNDQDVTVEYCPGLAATGEMEVNRLFDHSTLSAPVPGPHSLPPO

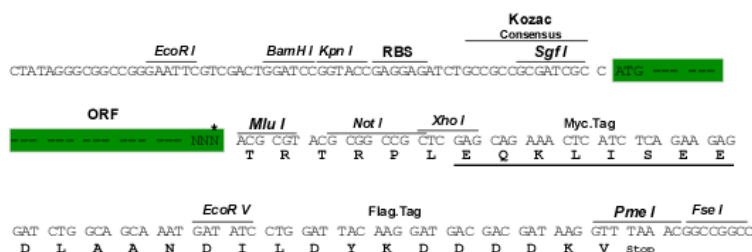
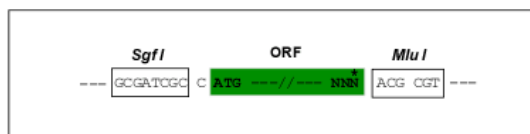
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_008721

ORF Size:

996 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_008721.4](#), [NP_032747.2](#)

RefSeq Size: 1522 bp

RefSeq ORF: 999 bp

Locus ID: 18146

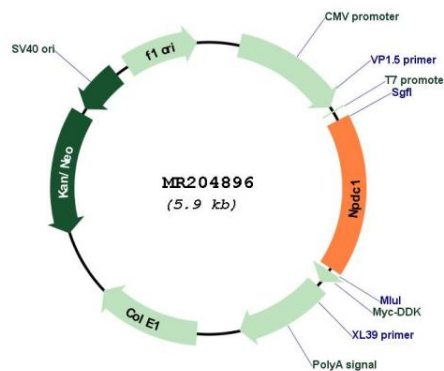
UniProt ID: [Q64322](#)

Cytogenetics: 2 A3

MW: 35.7 kDa

Gene Summary: Suppresses oncogenic transformation in neural and non-neural cells and down-regulates neural cell proliferation. Might be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204896