

Product datasheet for RC212323

Nudel (NDEL1) (NM 001025579) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Nudel (NDEL1) (NM_001025579) Human Tagged ORF Clone

Tag: Myc-DDK Nudel

Synonyms: EOPA; MITAP1; NDE1L1; NDE2; NUDEL

Mammalian Cell

Selection:

Symbol:

Neomycin

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC212323 representing NM_001025579 Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AGAAGCAGAGTTGGAGGCACAATTAGTACAGGCTGAACAAAGAAATAGAGACTTGCAGGCTGATAACCAA AGACTGAAATATGAAGTGGAGGCATTAAAGGAGAAGCTAGAGCATCAATATGCACAGAGCTATAAGCAGG TCTCAGTGTTAGAAGATGATTTAAGTCAGACTCGGGCCATTAAGGAGCAGTTGCATAAGTATGTGAGAGA GCTGGAGCAGGCCAACGACCTGGAGCGAGCCAAAAGGGCAACAATAGTTTCACTGGAAGACTTTGAA CAAAGGCTAAACCAGGCCATTGAACGAAATGCATTTTTAGAAAGTGAACTTGATGAAAAGGAATCTTTGT TGGTCTCTGTACAGAGGTTAAAGGATGAAGCAAGAGATTTAAGGCAAGAACTAGCAGTTCGGGAAAGACA ACAGGAAGTAACTAGAAAGTCGGCTCCTAGCTCTCCAACTCTAGACTGTGAAAAGATGGACTCCGCCGTC CAAGCATCACTTTCTTTGCCAGCTACCCCTGTTGGCAAAGGAACGGAGAACACTTTTCCTTCACCGAAAG CTATACCAAATGGTTTTGGTACCAGTCCACTAACTCCCTCTGCTAGGATATCAGCACTAAACATCGTGGG GGATCTCTTACGGAAAGTAGGGGCTTTAGAATCCAAATTAGCAGCTTGCAGGAATTTTGCAAAGGACCAA GCATCACGAAAATCCTATATTTCAGGGAATGTTAACTGTGGGGTGCTGAATGGCAATGGCACAAAGTTCT CTCGATCAGGGCATACATCTTTCTTCGACAAAGGGCAAGAAAAAGTCATATTTCCCACGTTGTTCATGGG **GCAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212323 representing NM_001025579

Red=Cloning site Green=Tags(s)

MDGEDIPDFSSLKEETAYWKELSLKYKQSFQEARDELVEFQEGSRELEAELEAQLVQAEQRNRDLQADNQ RLKYEVEALKEKLEHQYAQSYKQVSVLEDDLSQTRAIKEQLHKYVRELEQANDDLERAKRATIVSLEDFE QRLNQAIERNAFLESELDEKESLLVSVQRLKDEARDLRQELAVRERQQEVTRKSAPSSPTLDCEKMDSAV QASLSLPATPVGKGTENTFPSPKAIPNGFGTSPLTPSARISALNIVGDLLRKVGALESKLAACRNFAKDQ ASRKSYISGNVNCGVLNGNGTKFSRSGHTSFFDKGQEKVIFPTLFMGQ

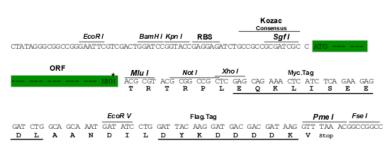
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6102 h10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001025579

ORF Size: 984 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 001025579.3

 RefSeq Size:
 2420 bp

 RefSeq ORF:
 987 bp

 Locus ID:
 81565

 UniProt ID:
 Q9GZM8

 Cytogenetics:
 17p13.1

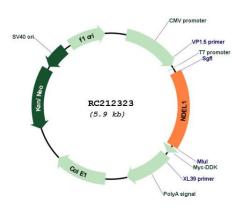
 MW:
 36.9 kDa

Gene Summary: This gene encodes a coiled-coil protein that plays a role in multiple processes including

cytoskeletal organization, cell signaling and neuron migration, outgrowth and maintenance. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome X.

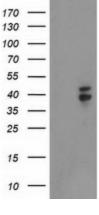
[provided by RefSeq, Mar 2012]

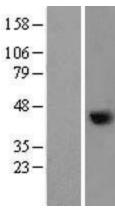
Product images:

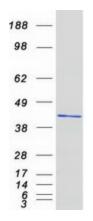


Circular map for RC212323









HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NDEL1 (Cat# RC212323, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NDEL1(Cat# [TA503353]). Positive lysates [LY422448] (100ug) and [LC422448] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY422448]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212323 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified NDEL1 protein (Cat# [TP312323]). The protein was produced from HEK293T cells transfected with NDEL1 cDNA clone (Cat# RC212323) using MegaTran 2.0 (Cat# [TT210002]).