

Product datasheet for **RG212323**

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:	TurboGFP
Symbol:	Nudel
Synonyms:	EOPA; MITAP1; NDE1L1; NDE2; NUDEL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212323 representing NM_001025579 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGGTGAAGATATACCAGATTTTCAAGTTTAAAGGAGGAACTGCTTATTGGAAGGAACTTTCCT
 TGAAGTATAAGCAAAGCTTCCAGGAAGCTCGGGATGAGCTAGTTGAATCCAGGAAGGAAGCAGAGAATT
 AGAAGCAGAGTTGGAGGCACAATTAGTACAGGCTGAACAAAGAAATAGAGACTTGCAGGCTGATAACCAA
 AGACTGAAATATGAAGTGGAGGCATTAAGGAGAAGCTAGAGCATCAATATGCACAGAGCTATAAGCAGG
 TCTCAGTGTTAGAAGATGATTTAAGTCAGACTCGGGCCATTAAGGAGCAGTTGCATAAGTATGTGAGAGA
 GCTGGAGCAGGCCAACGACGACCTGGAGCGAGCCAAAAGGGCAACAATAGTTTCACTGGAAGACTTTGAA
 CAAAGGCTAAACAGGCCATTGAACGAAATGCATTTTTAGAAAAGTGAAGTGGATGAAAAGGAATCTTTGT
 TGGTCTCTGTACAGAGGTTAAAGGATGAAGCAAGAGATTTAAGGCAAGAACTAGCAGTTCGGGAAAGACA
 ACAGGAAGTAAGTAAAGTCCGCTCCTAGCTCTCAACTCTAGACTGTGAAAAGATGGACTCCGCCGTC
 CAAGCATCACTTTCTTTGCCAGCTACCCCTGTTGGCAAAGGAACGAGAACACTTTTCTTCAACCGAAAG
 CTATACCAATGGTTTTGGTACCAGTCCACTAACTCCCTCTGCTAGGATATCAGCACTAACATCGTGGG
 GGATCTTTACGAAAGTAGGGGCTTTAGAATCCAAATAGCAGCTTGCAGGAATTTTGCAAAGGACCAA
 GCATCACGAAAATCCTATATTTACAGGAATGTTAACTGTGGGTGCTGAATGGCAATGGCACAAGTTCT
 CTCGATCAGGCATACATCTTTCTTCGACAAAGGGCAAGAAAAAGTCATATTTCCACGTTGTTTCATGGG
 GCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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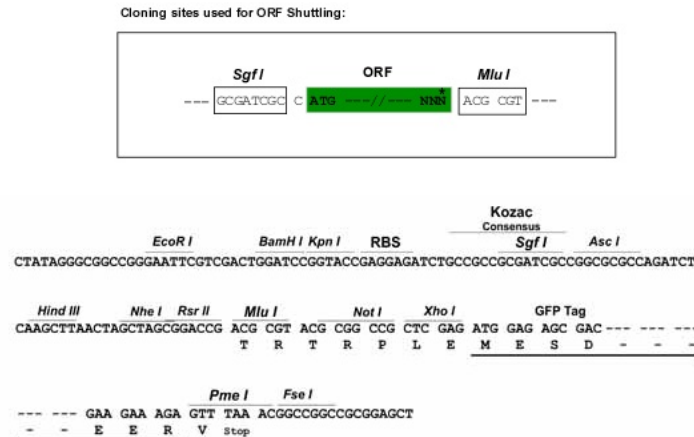
Protein Sequence: >RG212323 representing NM_001025579
 Red=Cloning site Green=Tags(s)

MDGEDIPDFSSLKEETAYWKELSLKYKQSFQEARDELVEFQEGSRELEAELEAQLVQAEQRNRDLQADNQ
 RLKYEVEALKEKLEHQAQSYKQSVLEDDLSTRAIKEQLHKYVRELEQANDDLERAKRATIVSLEDGE
 QRLNQAIERNAFLESELDEKESLLVSVQRLKDEARDLRQELAVRERQQEVTRKSAPSSPTLDCEKMDSAV
 QASLSLPATPVGKGTENTFPSPKAIPNGFGTSPLTPSARISALNIVGDLRLKVGALSKLAACRNFAKDQ
 ASRKSYSISGNVNCVNLNGNGTKFSRSGHTSFFDKGQEKVIFPTLFMGQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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

RefSeq: [NM_001025579.3](#)

RefSeq Size: 2420 bp

RefSeq ORF: 987 bp

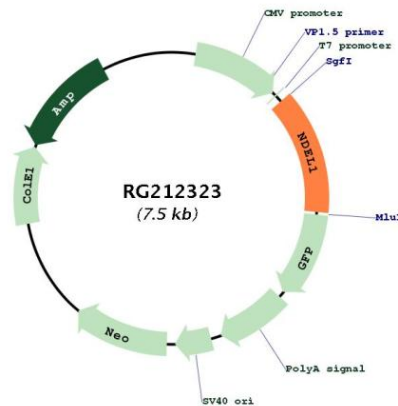
Locus ID: 81565

UniProt ID: [Q9GZM8](#)

Cytogenetics: 17p13.1

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 RG212323