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# Product datasheet for RC200179

## NDE1 (NM_017668) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | NDE1 (NM_017668) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | NDE1 |
| **Synonyms:** | HOM-TES-87; LIS4; MHAC; NDE; NUDE; NUDE1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC200179 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGACTCCGGAAAGACTTTCAGCTCCGAGGAGGAAGAAGCTAACTATTGGAAAGATCTGGCGATGA
CCTACAAACAGAGGGCAGAAAATACGCAAGAGGAACTCCGAGAATTCCAGGAGGGAAGCCGAGAATATGA
AGCTGAATTGGAGACGCAGCTGCAACAAATTGAAACCAGGAACAGAGACCTCCTGTCCGAAAATAACCGC
CTTCGCATGGAGCTGGAAACCATCAAGGAGAAGTTTGAAGTGCAGCACTCTGAAGGCTACCGGCAGATCT
CAGCCTTGGAGGATGACCTCGCGCAGACCAAAGCCATTAAAGACCAATTGCAGAAATACATCAGAGAGCT
GGAGCAAGCAAATGACGACCTGGAAAGAGCCAAGCGCGCCACGATCATGTCTCTCGAAGACTTTGAGCAG
CGCTTGAATCAGGCCATCGAAAGAAATGCCTTCCTGGAAAGTGAACTTGATGAAAAAGAGAATCTCCTGG
AATCTGTTCAGAGACTGAAGGATGAAGCCAGAGATTTGCGGCAGGAACTGGCCGTGCAGCAGAAGCAGGA
GAAACCCAGGACCCCCATGCCCAGCTCAGTGGAAGCTGAGAGGACAGACACAGCTGTGCAGGCCACGGGC
TCCGTGCCGTCCACGCCCATTGCTCACCGAGGACCCAGCTCAAGTTTAAACACACCTGGGAGCTTCAGAC
GTGGCCTGGACGACTCCACCGGGGGGACCCCCCTCACACCTGCGGCCCGGATATCAGCCCTCAACATTGT
GGGAGACCTACTGCGGAAAGTCGGGGCACTGGAGTCCAAACTCGCTTCCTGCCGGAACCTCGTGTACGAT
CAGTCCCCAAACCGAACAGGTGGCCCAGCCTCTGGGCGGAGCAGCAAGAACAGAGATGGCGGGGAGAGAC
GGCCAAGCAGCACCAGCGTGCCTTTGGGTGATAAGGGGTTGGACACGAGTTGCCGCTGGTTGTCCAAATC
AACAACCAGGTCGTCCAGCTCCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:**

>RC200179 protein sequence
Red=Cloning site Green=Tags(s)

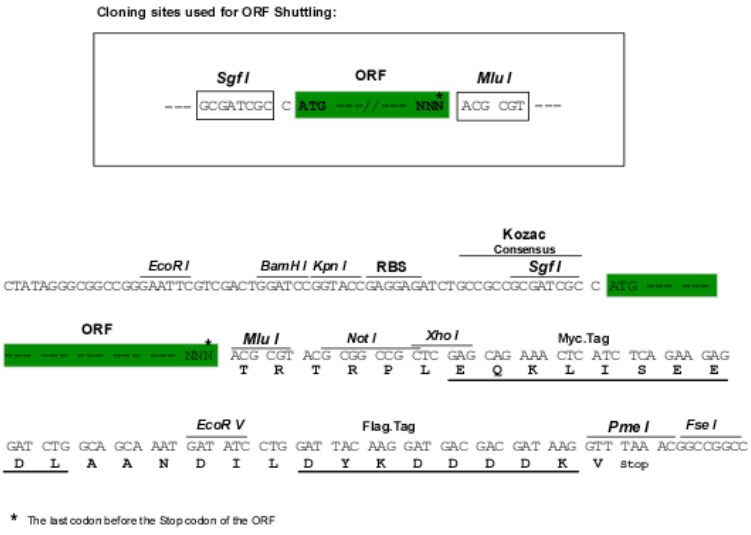
MEDSGKTFSSEEEEANYWKDLAMTYKQRAENTQEELREFQEGSREYEAELETQLQQIETRNRDLLSENNR
LRMELETIKEKFEVQHSEGYRQISALEDDLAQTKAIKDQLQKYIRELEQANDDLERAKRATIMSLEDFEQ
RLNQAIERNAFLESELDEKENLLESVQRLKDEARDLRQELAVQQKQEKPRTPMPSSVEAERTDTAVQATG
SVPSTPIAHRGPSSSLNTPGSFRRGLDDSTGGTPLTPAARISALNIVGDLLRKVGALESKLASCRNLVYD
QSPNRTGGPASGRSSKNRDGGERRPSSTSVPLGDKGLDTSCRWLSKSTTRSSSSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6177_a11.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_017668

**ORF Size:** 1005 bp

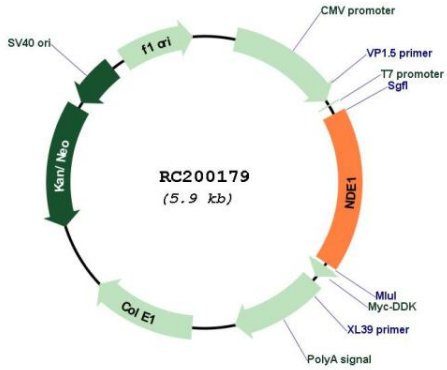
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

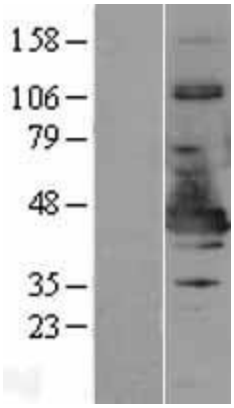
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

| | |
|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_017668.3 |
| **RefSeq Size:** | 3222 bp |
| **RefSeq ORF:** | 1008 bp |
| **Locus ID:** | 54820 |
| **UniProt ID:** | Q9NXR1 |
| **Cytogenetics:** | 16p13.11 |
| **Domains:** | NUDE_C |
| **MW:** | 37.7 kDa |
| **Gene Summary:** | This gene encodes a member of the nuclear distribution E (NudE) family of proteins. The encoded protein is localized at the centrosome and interacts with other centrosome components as part of a multiprotein complex that regulates dynein function. This protein plays an essential role in microtubule organization, mitosis and neuronal migration. Mutations in this gene cause lissencephaly 4, a disorder characterized by lissencephaly, severe brain atrophy, microcephaly, and severe cognitive disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2012] |

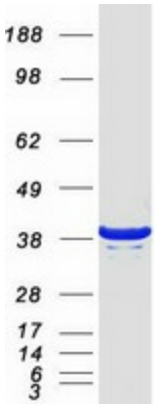
## Product images:




Circular map for RC200179




Western blot validation of overexpression lysate (Cat# [LY428439]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227919] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).




Coomassie blue staining of purified NDE1 protein (Cat# [TP300179]). The protein was produced from HEK293T cells transfected with NDE1 cDNA clone (Cat# RC200179) using MegaTran 2.0 (Cat# [TT210002]).