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Product datasheet for RG200179

NDE1 (NM_017668) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDE1 (NM_017668) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDE1
Synonyms:	HOM-TES-87; LIS4; MHAC; NDE; NUDE; NUDE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG200179 representing NM_017668
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

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

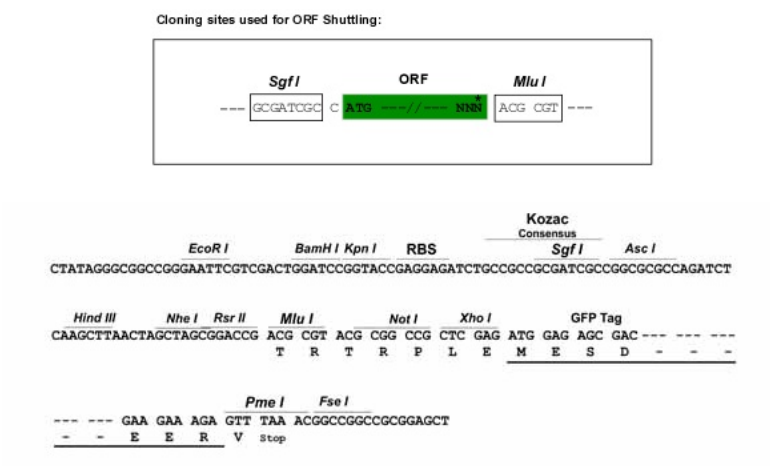
>RG200179 representing NM_017668
Red=Cloning site Green=Tags(s)

MEDSGKTFSSEEEEANYWKDLAMTYKQRAENTQEELREFQEGSREYEAELETQLQQIETRNRDLLSENNR
LRMELETIKEKFEVQHSEGYRQISALEDDLAQTKAIKDQLQKYIRELEQANDDLERAKRATIMSLEDFEQ
RLNQAIERNAFLESELDEKENLLESVQRLKDEARDLRQELAVQQKQEKPRTPMPSSVEAERTDTAVQATG
SVPSTPIAHRGPSSSLNTPGSFRRGLDDSTGGTPLTPAARISALNIVGDLLRKVGALESKLASCRNLVYD
QSPNRTGGPASGRSSKNRDGGERRPSSTSVPLGDKGLDTSCRWLSKSTTRSSSSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017668

ORF Size: 1005 bp

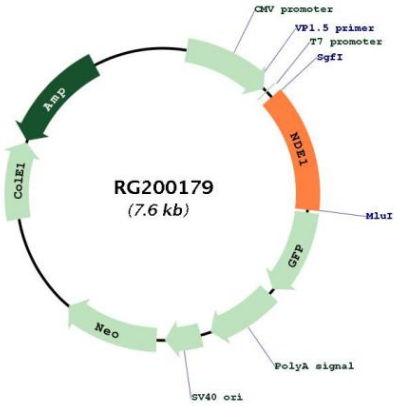
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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. 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_017668.3
RefSeq Size:	1997 bp
RefSeq ORF:	1008 bp
Locus ID:	54820
UniProt ID:	Q9NXR1
Cytogenetics:	16p13.11
Domains:	NUDE_C
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 RG200179