

Product datasheet for **RG227919**

NDE1 (NM_001143979) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDE1 (NM_001143979) 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:	>RG227919 representing NM_001143979 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGACTCCGAAAGACTTTCAGCTCCGAGGAGGAAGAAGCTAACTATTGGAAAGATCTGGCGATGA
 CCTACAAACAGAGGGCAGAAAATACGCAAGAGGAACTCCGAGAATTCAGGAGGGAAGCCGAGAATATGA
 AGCTGAATTGGAGACGCAGCTGCAACAAATTGAAACCAGGAACAGAGACCTCCTGTCCGAAAATAACCGC
 CTTGCGCATGGAGCTGAAACCATCAAGGAGAAGTTTGAAGTGCAGCACTCTGAAGGCTACCGGCAGATCT
 CAGCCTTGGAGGATGACCTCGCGCAGACCAAAGCCATTAAAGACCAATTGCAGAAATACATCAGAGAGCT
 GGAGCAAGCAAATGACGACCTGGAAGAGCCAAGCGCGCCACGATCATGTCTCTCGAAGACTTTGAGCAG
 CGCTTGAATCAGGCCATCGAAAGAAATGCCTTCCTGGAAGTGAAGTGAATGAAAAAGAGAATCTCCTGG
 AATCTGTTTCAGAGACTGAAGGATGAAGCCAGAGATTTGCGGCAGGAAGTGGCCGTGCAGCAGAAGCAGGA
 GAAACCCAGGATCCCATGCCCAGCTCAGTGGAAGCTGAGAGGACAGACAGCTGTGCAGGCCACGGGC
 TCCGTGCCGTCCACGCCATTGCTACCGAGGACCAAGCTCAAGTTTAAACACACCTGGGAGCTTCAGAC
 GTGGCCTGGACGACTCCACCGGGGGGACCCCTCACACCTGCGGCCCGGATATCAGCCCTCAACATTGT
 GGGAGACCTACTGCGGAAAGTCGGGCACTGGAGTCCAACTCGCTTCTGCCGGAACCTCGTGTACGAT
 CAGTCCCCAAACCGAACAGGTGGCCAGCCTCTGGCGGAGCAGCAAGAACAGAGATGGCGGGGAGAGAC
 GGCCAAGCAGCACCAGCGTGCCTTTGGGTGATAAGGGGTTGGACACGAGTTGCCGCTGGTTGTCCAAATC
 AACAAACAGGTCGTCCAGCTCCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227919 representing NM_001143979
 Red=Cloning site Green=Tags(s)

MEDSGKTFSSSEEEANYWKDLAMTYKQRAENTQEELREFQEGSREYEALETQLQQIETNRDLLSENNR
 LRMELETIKEKFEVQHSEGYRQISALEDDLAQTKAIKDQLQKYIRELEQANDDLERAKRATIMSLEDSEQ
 RLNQAIERNAFLESELDEKENLLESVQRLKDEARDLRQELAVQQKQEKPRIPMPSSVEAERTDTAVQATG
 SVPSTPIAHRGPSSSLNTPGSFRRGLDDSTGGTPLTPAARISALNIVGDLLRKVGAKESKLASCRNLVYD
 QSPNRTGGPASGRSSKNRDGGERRPSSTSVPLGDKGLDTSRWLSKSTTRSSSSC

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001143979

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.

RefSeq: [NM_001143979.1](#), [NP_001137451.1](#)

RefSeq Size: 3936 bp

RefSeq ORF: 1008 bp

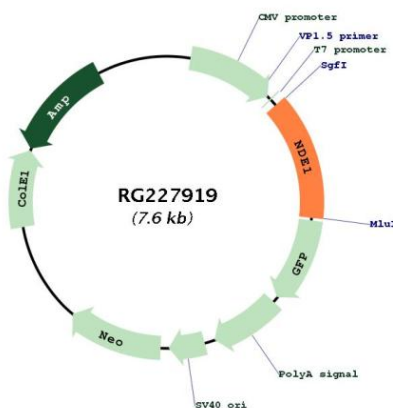
Locus ID: 54820

UniProt ID: [Q9NXR1](#)

Cytogenetics: 16p13.11

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 RG227919