

Product datasheet for **MG205167**

Nde1 (BC023267) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nde1 (BC023267) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nde1
Synonyms:	2810027M15Rik; AU042936; AW822251; mNudE; Nude
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205167 representing BC023267 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAGGACTCGGAAAGACCTTTGAATCAGAGGAGGAAGAAACAACTATTGGAGAGACCTGGCCATGA
 CCTACAAACAGAGGGCAGAGAATACTCAGGAAGAACTCAGAGAGTTCCAGGAAGGAAGCCGAGAATACGA
 AGCTGAATTGGAGGCTCAGCTGCAGCAGATTGAAACCAGGAACCGGGACCTCTTGTCAGAGAATAACCGC
 CTTGCGATGGAGCTGGAGTCTGTGAAGGAGAAGTTTGAATGCAGCACTCAGAGGGTTACCGGCAGATCT
 CAGCCTTGAGGATGACCTGGCGCAGACGAAAGCCATTAAAGACCAACTGCAGAAATACATTAGGGAAC
 GGAACAAGCCAATGATGACCTGGAAGAGCCAAACGAGCCACAATCATGTCCCTGGAAGACTTTGAGCAG
 CGTTTGAATCAAGCCATTGAAAGAAATGCCTTCCTAGAGAGTGAGCTGGATGAGAAGGAGAATCTCTAG
 AATCTGTGCAGAGGCTGAAGGATGAAGCCCGAGATCTGCGGCAGGAATTGGCTGTGCAACAGAAGCAAGA
 CAAGCCCCGGACCCATGCCAGGCTCAGGGCAAGCCAAGAGGACAGACATGGCTGTGCAGGCCACAGGC
 TCTGTACCGTCTACTCCAGTAGCTACCGAGGACCTAGCTCTGGTTTGAACACACCAGGAATGTTGAGC
 GTGGTCTGGACAGCTCCACTAGTGGGACGCCACTCACCTGCAGCCCGGATATCAGCCCTAAACATCGT
 TGGGACCTGCTTCGAAAGTTGGGCCCTGGAGTCCAAGCTAGCATCATGCAGGAACCTCATGTATGAT
 CAGTCCCCAAGCCGACAAAGTGGGCCAGCCTCAGGACGAGGAACCAAAACAGAGATGGTGTGACAGAA
 GGCCAGGCAGTACCAGTGTGGGCGATAAAGGGTCAGGAAAACGCTTGGAGTTTGGGAAGCCAGCCTCAGA
 GCCAGCATCACCAGCGCTACCATCCGCCAGGGTGTGGTCAAGCTTTTGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG205167 representing BC023267
 Red=Cloning site Green=Tags(s)

MEDSGKTFESEEETNYWRDLAMTYKQRAENTQEELREFQEGSREYEAELQQLQIETNRDLLSENNR
 LRMELESVKEKFEMQHSEGYRQISALEDDLAQTKAIKDQLQKYIRELEQANDDLERAKRATIMSLEDFEQ
 RLNQAIERNALFESELDKENLLESVQRLKDEARDLRQELAVQQKQDKPRTMPGSGQAKRTDMAVQATG
 SVPSTPVAHRGPSSGLNTPGMFRRGLDSSTSGTPLTPAARISALNIVGDLLRKVGALSKLASCNFMYP
 QSPSRTSGPASGRGKTRDGVDRRPGSTSVGDKGSGKRLEFGKPASEPASPALPSAQGVVKLLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC023267

ORF Size: 1032 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: [BC023267](#), [AAH23267](#)

RefSeq Size: 2196 bp

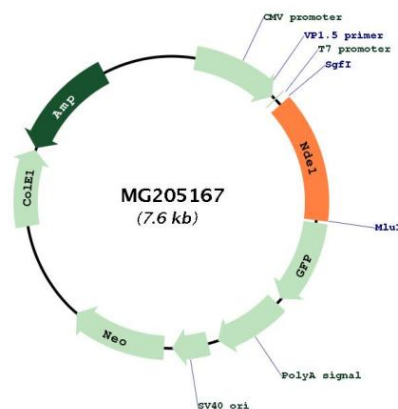
RefSeq ORF: 1034 bp

Locus ID: 67203

Cytogenetics: 16 A1

Gene Summary: Required for centrosome duplication and formation and function of the mitotic spindle. Essential for the development of the cerebral cortex. May regulate the production of neurons by controlling the orientation of the mitotic spindle during division of cortical neuronal progenitors of the proliferative ventricular zone of the brain. Orientation of the division plane perpendicular to the layers of the cortex gives rise to two proliferative neuronal progenitors whereas parallel orientation of the division plane yields one proliferative neuronal progenitor and a post-mitotic neuron. A premature shift towards a neuronal fate within the progenitor population may result in an overall reduction in the final number of neurons and an increase in the number of neurons in the deeper layers of the cortex.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205167