OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC206128

Ndel1 (BC046796) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndel1 (BC046796) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ndel1
Synonyms:	NUDEL, MITAP1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC046796
CGGAGTGGAGCTCAGGGCTGCGGAAGGGAGCAGAGCTGAGCGGCTGGGCGGGCCTGGCCAGGCCAGCGGA
GCAGAGACGTCGGCCGAGCGGCGGCGAACATGCGCTTTTGACACATTGGCGGCTTTCTTGATCATGGATG
GTGAAGATATACCGGATTTTTCAAGTTTAAAGGAAGAAACTGCTTATTGGAAGGAACTTTCCTTGAAGTA
TAAGCAAAGCTTCCAGGAAGCTCGGGATGAGCTAGTTGAGTTCCAGGAAGGAAGCAGAGAGTTAGAAGCA
GAGTTGGAGGCACAGTTAGTACAGGCTGAACAAAGAAATAGAGACCTGCAGGCTGATAACCAAAGACTGA
AGTATGAAGTGGAGGCGTTAAAGGAGAAACTAGAGCATCAGTATGCACAGAGCTACAAGCAGGTCTCAGT
GTTAGAAGATGATTTAAGTCAGACCCGGGCCATTAAGGAGCAACTGCATAAGTATGTGAGAGAGCTGGAG
CAGGCCAATGATGACCTGGAGCGAGCAAAAAGGGCAACAATAGTTTCACTGGAAGACTTTGAACAAAGGC
TAAATCAGGCCATTGAACGAAATGCATTCTTAGAAAGTGAGCTCGATGAAAAGGAATCTTTGTTGGTCTC
AGTACAGAGGTTAAAGGATGAAGCCAGAGATTTAAGGCAAGAACTAGCAGTTCGGGAACGACAACAGGAA
GTGACCCGCAAGTCTGCCCCCAGCTCTCCAACTCTGGACTGTGAGAAGATGGATTCTGCGGTCCAGGCTT
CACTCTCCTTGCCTGCAACGCCTGTTGGGAAAGGCACAGAAAACAGTTTTCCTTCACCAAAAGCTATACC
AAACGGCTTTGGAACCAGTCCACTAACTCCTTCTGCTAGGATATCAGCACTAAACATCGTGGGAGATCTC
TTGCGGAAAGTAGGGGCTTTAGAATCCAAGTTAGCCGCTTGCAGGAACTTTGCAAAAGACCAAGCATCCC
GCAAATCTTATGTTCCAGGGAGCGTTAACTGTGGGGTAATGAACAGCAATGGCCCAGAGTGCCCAAGGTC
AGGGCGAGCAACTTTCTTCCATAAAGGGGCAGTAAATGGCTTTGATCCAGCTCCTCCTCCTCCTGGGCTG
GGCTCCTCACGCCCATCGTCAGCACCGGGTATGCTGCCTCTCAGTGTGTGAGTGCCCGGCCTCCAGGTGG
GGCCCCTGCCCTCTTCCAGCAGCCCAGGACACCTACGCCTCGTCCCTCGGTGCCTGGGTCCAGCCCTGTG
CCCCTCTGTCCGCCTCTTCACCGCTGGCAGAGGGCAGGCTGCATGCAGTGGCGGCTGCTGGGCCCTGCCC
AGCCCCAGGACTCTGCGCGATATCAATACTGGCTATTTTCTCTTCTCGCCGTAGTGCCGTTGGTTTCACA
TGATTGCACTTTTGTGGGTCACAAGTGATACATACGTGTATTACTCGATCACTGGATGTGGAAGTACCCA
TTCATCACATCTGCCTCATAGCCCCCATCTTTGCTGTGCTGATAGGATTTAGTTGTGTTTAGGACATTGC
AGATCTTCTAGAAGTTTCCCCTCAATCAGGTTGATAAGACCTTCTAAGCTTCTGCCAAGCATCTTCAGTG
CTCACAATCATGTGTCCCCTAGCCTCACCCCTGCAGTTCAGGCCTGTTTCTGTCAGAGTCAGGAACATCT
CTGAATTATGGAACATTGTCTGTACCTTCTGACTTTATGTAAGCAGTCCATTCCATTGCTTGTTTCTCAA
AGCAGCGAGATACCTGTCTGAGCTGCAGGAGGCAGGGGCAGCCGGGACATGGGCACTTCAGGGCCGAGCC
TCTGTGTTGCCTTCTCCTCTGTCCTCAGACTCAGGAGGCAGGTGGCAATCTCCTCGCCAGCATTCCAGGC
CCTCAGTTCAATGACATCTCTCAGAGCATTTTTGTTTTCTCCTCTGAAGGTCCATCCAGTTGCATTGGGA
AGGGTTGAGGGGCCTGATTCTGGGGCTGGCTAATGCCAGCTCTCGGGGGCAGACTGGCTAGGTGTTTGTC
CCTTGCACCCTATGATTATTCTCATGCTGCACTTACTGTTTACATTTGTTTTATTGTACATAGGTTTGTA
AACATTATTGCCTAAGATATTTGTATATAACTTGGGCTTTGTAGCTTTTATTTATTCAGACTCATATGGC
ATGTTAATTAATGACTTACGATGGTGTCCTACTCTGGGCAGCTGTATAGGATCATCATGTGGTTAAAAGA
AGATACTTCCCTCCAAAAAAAAATCTTTTAATGTGGAAACAATAAATTTCACAGAAAAAAAAAAAAAAAA AAAAAAAA

Restriction Sites: AscI-NotI

ACCN: BC046796

Insert Size: 1038 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	BC046796, AAH46796
RefSeq Size:	2318 bp
RefSeq ORF:	1038 bp
Locus ID:	83431
Cytogenetics:	11 B3
Gene Summary:	Required for organization of the cellular microtubule array and microtubule anchoring at the centrosome. May regulate microtubule organization at least in part by targeting the microtubule severing protein KATNA1 to the centrosome. Also positively regulates the activity of the minus-end directed microtubule motor protein dynein. May enhance dynein-mediated microtubule sliding by targeting dynein to the microtubule plus ends. Required for several dynein- and microtubule-dependent processes such as the maintenance of Golgi integrity, the centripetal motion of secretory vesicles and the coupling of the nucleus and centrosome. Also required during brain development for the migration of newly formed neurons from the ventricular/subventricular zone toward the cortical plate. Plays a role, together with DISC1, in the regulation of neurite outgrowth. Required for mitosis in some cell types but appears to be dispensible for mitosis in cortical neuronal progenitors, which instead requires NDE1. Facilitates the polymerization of neurofilaments from the individual subunits NEFH and NEFL. Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts (PubMed:27777970).[UniProtKB/Swiss-Prot Function]