

Product datasheet for **MC203366**

NdrG1 (NM_008681) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NdrG1 (NM_008681) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	NdrG1
Synonyms:	CAP43; CMT4D; DRG1; HMSNL; Ndr1; NdrI; NMSL; PROXY1; RTP; TDD5
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC071235
 CCCACGCGTCCGCCACGCGTCCGAGGCTACCCTCTCGCGTTGCAGGCAGATTGCTCACCCATCTTCGTC
 TCCCTCTTACCTCCCGCGGGCGCTGCACCTCCAACCTTGTGGTTGGCTCCTTCCGTCGTTGCTTGT
 CATTAGGTGTGTGATAGCACGGAATGTCCCGAGAGCTACATGACGTGGACCTCGCTGAGGTGAAGCCTC
 TGGTGGAAAAAGGGGAGAGCATCACTGGTCTCTGCAAGATTCGATGTTGAGGAGCAGGATATTGAGAC
 CCTACATGGCTCCCTGCATGTACCCTGTGTGGACCCCCAAGGGCAACCGTCTGTATCCTCACGTAT
 CACGACATCGGCATGAACCACAAGACCTGCTACAACCCCTCTTCAACTCTGAGGACATGCAGGAGATCA
 CACAACATTTTGTCTGCTGCCATGTGGATGCCCTGGCCAACAGGATGGTGCCCTTCTTCCCAGTGGG
 GTACATGTACCCCTCAATGGATCAGTTGGCTGAAATGCTTCTGGAGTCCTTACCAGTTTGGGCTCAAG
 AGTGTCTATTGGCATGGGACAGGAGCTGGCGCTACATCCTGACCCGCTTCGCACTCAACAACCTGAGA
 TGGTAGAGGGTCTCGTGTCTATGAATGTGAACCCCTGTGCTGAAGGCTGGATGGACTGGGCTGCCTTAA
 GATCTCAGGATGGACCAAGCCCTGCCTGACATGGTGGTGTCCACCTCTTCGGCAAGGAGGAGATACAC
 AACACGTGGAGGTAGTGCACACGTACCGCCAGCACATCTCAACGACATGAACCCGAGCAACCTACACT
 TATTCATCAGCGCTACAACAGCCGGAGAGACCTGGAGATTGAGCGGCCAATGCCTGGAACCCACACTGT
 CACTTTCAGTGCCTGTCTGTGGTAGTTGGAGACAACCTCTCTGCCGTGGATGCTGTGGTGGAAATGC
 AATTCTAAATTGGACCAACGAAGACCACCTGTCAAGATGGCAGACTGTGGAGCCTTCTCAGATCT
 CTCAGCCCGCAAGCTTGTGAGGCCTTCAAGTACTTTGTGCAGGGCATGGGATACATGCCTTCTGCCAG
 CATGACTCGCCTGATGCGGTCCCGCACAGCCTCTGGCTCCAGTGTACATCCCTGGAGGGCACCCGTAGC
 CGCTCCCATACCAGCGAGGGCCCCGAAGCCGCTCGCACACCAAGTGGGGTCCCGTAGCCGCTCCCAT
 CCAGTGGAGTGGCCGTCTAACATCACCCCAACTCGGGTGCCACCGGAAACAATGCCGGGCCAAGTC
 CATGGAGGTGCTGCTAAGCAATCTGTGCATCAGTACCCTGGACTGGTGGCCTCTCCCTAGCCCCCA
 ACCCTTGCCTGCCACCCTACGCTAATGCGGTATTAATCTAAAGCTGCTTTTGAAGAATGAACCTGGCG
 GTGGCAGACCCAGGCTGTTCTGACTGCCTCTGGGACCAGGGTGGTGGTGGTGGACCAAGGCAAGAAG
 CAGTTACGCGTACTGTTCTGCTAACAAGTGGCCTGGTGGACCCTCTCTACCCTCAGACCAAACTGC
 CAAAACCTAAGAAATAGATAGCTGTAACACTGCCTGGCTCCAAGCCAGGCTGATCCAGCATTCTGGTTCA
 TAGGCGTTTTGCCAACCTGCCTACTTCTGTTTCTCCCACTAAACTATTCTGGAAACAAACTCTG
 TTTTGAAGGAGAGAGAGAGGAGGAGGAAAGTTGGGCGCCTATTTTAAAGTAGAGAAACCAAGAAAGGAAGA
 GAAAAAAGGCAGGGTCTAGGGCAGGTAGAGGAAAAACACAACAAGTCTACTAGGCTCACTTGAAGGAAT
 TGATTTTAAAGTCTGGACACTGAAACCCACAACCTGTTTTTCTGGCAACCTTTTAAAGTGAAGAAAA
 CTGGTAACAAACCCAGGCTTTATAGAGAAAGTATCCAGCAAAATGTGGGCATCAGTGATTTAAGACTC
 TTGCTATGCAGTCTACTGTACCCGCTCCCATTCACAGTGAATGAGTGGATGACACCTCTGTCCCTCGG
 GAAGATGGTTTTGATTTGTTGTTGCATTTTGGGAGAGGGGAGAACCCAGCAGGTGACAGGGGTCTT
 GTCTGGGATGAGTCTTATAGGATGGGAAGGGTGGGATAGAATGGCCCTGGGATTTTGGAGACTCATGGTA
 GGGCAAGTGCTAGAACCTGGTGGGTGTGATTTTATTGATCTGGAATCTTGTGTGACTGAGTACACCTT
 GTCTCCCATAAATTGATGTCTGGCATTGATTTGAAACTTGATAGCTGAATGTCTCTTAACTGGCCATCGC
 TGGTTCTTCCAGAGAGAACCGTATGTTCTAGTGGGGGAAGGACTGGTTTTGGGTTCTGTACATTCCACGGG
 AACTTGCTTCCCTCTCTGCCCCCTGCTGACTGGGTTGTAGCATTGGCCTCTTAAAGCAATGCCAGCC
 TAATGCCCATGCTCCATACTACTGCCTTTTATTCTTACTGTGGTAACCTTGAACCTTTCTATAGGAA
 ATGTGATCAGATCAGAGACACTTGATCGTTGGGAGTCAAGCCCTCAAGGCCTGGCGACTTCCAGGATCTTG
 GAGTTGCTAGAGGAAAAGTAGTTATGCCCTATAGGCGGCATGAGAGACAAGGGATCAGTTTACCTGCCAA
 CTCTACCGTGGAGGAGGAGTTCCACTGACCTTGTGTAGAAAGATCAGGAATCCAGGCCAGGGTATTGA
 ATGCTGACAAGAAATCACTGTATATGTCTCTCCAGGGCAGTTTCTTAATAAGATGTTTGTATTTATTTCC
 AGACCAATAAATTTGTAACCTTTCAGTGAACCAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_008681
Insert Size: 2012 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC071235](#), [AAH71235](#)

RefSeq Size: 2912 bp

RefSeq ORF: 2012 bp

Locus ID: 17988

UniProt ID: [Q62433](#)

Cytogenetics: 15 D2

Gene Summary: Stress-responsive protein involved in hormone responses, cell growth, and differentiation. Acts as a tumor suppressor in many cell types. Necessary but not sufficient for p53/TP53-mediated caspase activation and apoptosis. Required for vesicular recycling of CDH1 and TF. May also function in lipid trafficking. Protects cells from spindle disruption damage. Functions in p53/TP53-dependent mitotic spindle checkpoint. Regulates microtubule dynamics and maintains euploidy (By similarity). Has a role in cell trafficking notably of the Schwann cell and is necessary for the maintenance and development of the peripheral nerve myelin sheath. [UniProtKB/Swiss-Prot Function]