

Product datasheet for MC212988

NdrG4 (NM_145602) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NdrG4 (NM_145602) Mouse Untagged Clone
Tag: Tag Free
Symbol: NdrG4
Synonyms: D8Bwg1337e; Ndr1-rs; Ndr4; R74996; SMAP-8
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212988 representing NM_145602
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGAGTGCTGGGATGGGGAACATGACATCGAGACGCCTTATGGACTTCTGCATGTGGTGATCCGGG
 GCTCTCCAAAGGAACCGCCAGCCATCTCACCTACCATGATGTGGGTCTCAATCACAAGCTGTGCTT
 CAACACCTTCTCAACTTTGAGGACATGCAGGAGATCACCAAACACTTTGTGGTGTGCCAGTGATGCC
 CCTGGGCAGCAGGTGGGAGCGTCACAGTCCCTCAGGGGTACCAGTCCCTCCATGGAGCAGCTGGCCG
 CCATGCTCCCGAGTGTGGTACAGCACTTTGGGTTAAGTACGTGATTGGCATTGGAGTGGGAGCCGGAGC
 CTACGTGCTGGCCAAGTTTGCACTCATCTCCCTGACCTGGTGGAGGGGCTGGTGTGATGAACATTGAC
 CCCAACGGCAAAGGCTGGATTGACTGGGCTGCCACCAAGCTCTCTGGCTTGACCAGCACTTTACCAGACA
 CTGTACTCTCCCATCTCTTCAGCCAGGAGGAGCTGGTGAACAACCGGAGCTGGTGCAGAGCTACCGGCA
 GCAGATCTCAAACGTGGTGAACCGGCAACCTGCAGCTCTTCTGGAACATGTACAACAGCCGAGAGAC
 CTTGATATTAACCGACCTGGGACGGTGCCCAATGCCAAGACACTCCGCTGCCAGTGATGCTGGTAGTCG
 GAGATAATGCACCTGCTGAGGAAGGGTGGTTGAGTGAACCTCAAACCTGGACCAACCACTACGACCTT
 CCTGAAGATGGCAGATTCTGGTGGTCTTCTCAGGTGACACAACCGGGAAGCTGACTGAGGCCTTCAAG
 TACTTCTGCAAGGCATGGGCTACATGCCCTCAGCCAGCATGACCCGCCTCGCACGCTCACGTACCGCT
 CCCTCACCAGCGCAGTTCCGTGGACGGCAGCCGCCCTCAGCCCTGCGCCCACTCAGACAGCAGTGAGGG
 GATGGGCCAGGTCAACCACCATGGAGGTGTCCTGCT**TGA**

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_145602



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Insert Size:	1020 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:	<ol style="list-style-type: none"> 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:	<u>NM_145602.3</u> , <u>NP_663577.1</u>
RefSeq Size:	2927 bp
RefSeq ORF:	1020 bp
Locus ID:	234593
UniProt ID:	<u>Q8BTG7</u>
Cytogenetics:	8 D1
Gene Summary:	<p>Contributes to the maintenance of intracerebral BDNF levels within the normal range, which is necessary for the preservation of spatial learning and the resistance to neuronal cell death caused by ischemic stress. May enhance growth factor-induced ERK1 and ERK2 phosphorylation. May attenuate NGF-promoted ELK1 phosphorylation in a microtubule-dependent manner.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (B) lacks an in-frame exon in the coding region, compared to variant A. This results in a shorter protein (isoform B), compared to isoform A.</p>