

## Product datasheet for MC212987

### NdrG4 (NM\_001195006) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NdrG4 (NM\_001195006) 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:** >MC212987 representing NM\_001195006  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGGAGTGTGGGATGGGAACATGACATCGAGACGCCTTATGGACTTCTGCATGTGGTGATCCGGG  
 GCTCTCCAAAGGAACCGCCAGCCATCTCACCTACCATGATGTGGGTCTCAATCACAAGCTGTGCTT  
 CAACACCTTCTCAACTTTGAGGACATGCAGGAGATCACCAAACACTTTGTGGTGTGCCAGTGATGCC  
 CCTGGGCAGCAGGTGGGAGCGTCACAGTCCCTCAGGGGTACCAGTCCCTCCATGGAGCAGCTGGCCG  
 CCATGCTCCCGAGTGTGGTACAGCACTTTGGGTTAAGTACGTGATTGGCATTGGAGTGGGAGCCGGAGC  
 CTACGTGCTGGCCAAGTTTGCACCTATCTCCCTGACCTGGTGGAGGGGCTGGTGTGATGAACATTGAC  
 CCCAACGGCAAAGGCTGGATTGACTGGGCTGCCACCAAGCTCTCTGGCTTGACCAGCACTTACCAGACA  
 CTGTACTCTCCATCTCTTCAGCCAGGAGGAGCTGGTGAACAACCGGAGCTGGTGCAGAGCTACCGGCA  
 GCAGATCTCAAACGTGGTGAACCGGCAACCTGCAGCTCTTCTGGAACATGTACAACAGCCGAGAGAC  
 CTTGATATTAACCGACCTGGGACGGTGCCCAATGCCAAGACACTCCGCTGCCAGTGATGCTGGTAGTCG  
 GAGATAATGCACCTGCTGAGGAAGGGTGGTGTGAGTGAACCTCAAACCTGGACCAACCACTACGACCTT  
 CCTGAAGATGGCAGATTCTGGTGGTCTTCTCAGGTGACACAACCGGAAGCTGACTGAGGCCTTCAAG  
 TACTTCTGCAAGGCATGGGCTACATTGCACACTTGAAGGACCGAAGGCTGAGTGGAGGAGCAGTGCCCT  
 CAGCCAGCATGACCCGCCTCGCACGCTCACGTACCGCTCCCTCACCAGCGCCAGTTCCTGGAGCGGAG  
 CCGCCCTCAGCCCTGCGCCCACTCAGACAGCAGTGAGGGGATGGCCAGGTCAACCACACCATGGAGGTG  
 TCCTGCTGA

**ACGGCT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001195006



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<b>Insert Size:</b>	1059 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001195006.1, NP_001181935.1</u>
<b>RefSeq Size:</b>	2966 bp
<b>RefSeq ORF:</b>	1059 bp
<b>Locus ID:</b>	234593
<b>UniProt ID:</b>	<u>Q8BTG7</u>
<b>Cytogenetics:</b>	8 D1
<b>Gene Summary:</b>	<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 (A) represents the longer transcript and encodes the longer isoform (A).</p>