

## Product datasheet for **MG217629**

### **NdrG2 (NM\_001145959) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NdrG2 (NM\_001145959) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NdrG2  
**Synonyms:** AI182517; AU040374; Ndr2; SYLD  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG217629 representing NM\_001145959  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAACTTCAGGAGGTGCAGATCACCGAGGAGAAGCCGCTGTTGCCAGGACAAACACCCGAGACTG  
CCAAGACTCACTCTGTGGAGACACCTTATGGCTCGGTCACTTTTACTGTGTATGGCACCCCCAAACCCAA  
ACGCCCGCGATATTCACCTACCATGATGTAGGCCTCACTATAAGTCTTGCTTCCAGCCACTGTTTCGG  
TTCGGGGATATGCAAGAGATCATACAGAACTTCGTGCGGGTTCATGTGGATGCCCTGGCATGGAAGAGG  
GGGCGCCTGTGTTTCTCTGGGATATCAGTACCATCTCTGGACCAGCTTGCTGACATGATTCCTTGCAT  
CCTGCAGTACCTAAATTTCTCTACAATAATTGGAGTTGGTGTGGAGCCGGAGCCTACATTTCTGTCGCA  
TATGCTCTGAACCAACCCGACACAGTTGAAGGTCTTGTCTCATCAACATTGATCCCAATGCCAAGGGCT  
GGATGGACTGGGACGCCACAAGTTAACTGGCCTTACGCTTCCATTCCGGACATGATTCTTGGACATCT  
TTTCAGCCAGGAAGAGCTTTCTGGAAATCTGAATTGATACAAAAGTACAGAGGTATCATCCAACACGCA  
CCCAACCTGGAGAACATTGAACTCTACTGGAATAGCTACAACAACCGCCGAGACCTGAACTTTGAGCGAG  
GTGGTGAACGACCCCTCAAGTGCCTGTGATGCTGGTGGTGGAGACCAAGCACCTCATGAAGATGCCGT  
GGTGAATGTAACCTCAAAGCTGGACCCACACAGACCTCGTTCCTCAAGATGGCCGACTCTGGAGGTCAG  
CCACAGCTGACTCAGCCCGCAAGCTGACAGAGGCTTTCAAGTACTTCTGCAAGGCATGGGCTACATGG  
CCTTCTCCTGCATGACTCGCCTATCTCGGTCTCGCACAGCATCTCTGACCAGTGCAGCATCCATCGATGG  
CAGTCGGTCCCGATCCCGCACCTGTGCGCAGAGTAGCGAGTCTGGACTCTCCCTTCTGGACCCCGAGG  
CACACCATGGAAGTCTCCTGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG217629 representing NM\_001145959  
 Red=Cloning site Green=Tags(s)

MAELQEVQITEEKPLLPGQTPETAKTHSVETPYGSVTFVYGTGPKPKRPAIFTYHDVGLNYKSCFQPLFR  
 FGD MQEIIQN FVRVHVDAPGMEEGAPVFLGYQYPSLDQLADMIPCILQYLNFS TIIGVGVGAGAYILSR  
 YALNHPDTVEGLVLINIDPNAKGMWDAAHKL TGLTSSIPDMILGHLFSQEELSGNSELIQKYRGIQHA  
 PNLENIELYWNSYNNRRDLNFERGETTLKCPVMLVVG DQAPHEDAVVECN SKLDPTQTSFLKMADSGGQ  
 PQLTQPGKLTEAFKYFLQGMGYMASSCMTRL SRRTASL TSAASIDGSR SRRTL SQSSESGTLPSGPPG  
 HTMEVSC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001145959

**ORF Size:** 1071 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.

**RefSeq:** [NM\\_001145959.1](#), [NP\\_001139431.1](#)

**RefSeq Size:** 2115 bp

**RefSeq ORF:** 1074 bp

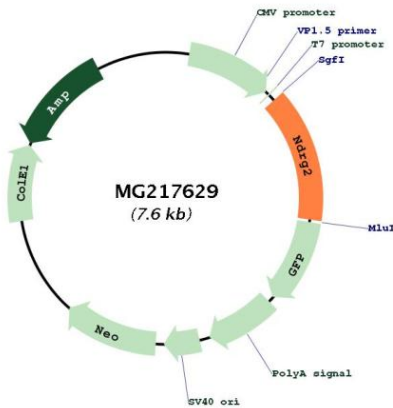
**Locus ID:** 29811

**UniProt ID:** [Q9QYG0](#)

**Cytogenetics:** 14 C2

**Gene Summary:** Contributes to the regulation of the Wnt signaling pathway. Down-regulates CTNNB1-mediated transcriptional activation of target genes, such as CCND1, and may thereby act as tumor suppressor. May be involved in dendritic cell and neuron differentiation (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG217629