

## Product datasheet for **RG233847**

### **NDRG4 (NM\_001242835) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDRG4 (NM\_001242835) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NDRG4  
**Synonyms:** BDM1; SMAP-8; SMAP8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG233847 representing NM\_001242835  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCGGAGTGTGGGATGGGGAACATGACATCGAGACACCCTACGGCCTTCTGCATGTAGTGATCCGGG  
GCTCCCCAAGGGGAACCGCCAGCCATCCTCACCTACCATGATGTGGGCCTCAACCACAACTATGCTT  
CAACACCTTCTCAACTTCGAGGACATGCAGGAGATCACCAAGCACTTTGTGGTGTGCACGTGGATGCC  
CCTGGACAACAGGTGGGGCGTCGCAGTTTCTCAGGGGTACCAGTTCCTCCATGGAGCAGCTGGCTG  
CCATGCTCCCCAGCGTGGTGCAGCATTTCCGGTCAAGTATGTGATTGGCATCGGAGTGGGCGCCGAGC  
CTATGTGCTGGCCAAGTTTGCACTCATCTTCCCCGACCTGGTGGAGGGGCTGGTGCCTGGTAAACATCGAC  
CCCAATGGCAAAGGCTGGATAGACTGGGCTGCCACCAAGCTCTCCGGCCTAACTAGCACTTTACCCGACA  
CGGTGCTCTCCCACCTCTTCAGCCAGGAGGAGCTGGTGAACAACACAGAGTTGGTGCAGAGCTACCGGCA  
GCAGATTGGGAACGTGGTGAACCAGGCCAACCTGCAGCTCTTCTGGAACATGTACAACAGCCGAGAGAC  
CTGGACATTAACCGCCCTGGAACGGTGCCAATGCCAAGACGCTCCGCTGCCCGTGATGCTGGTGGTTG  
GGGATAATGCACCCGCTGAGGACGGGGTGGTGGAGTGAACCTCAAACCTGGACCCGACCACTACGACCTT  
CCTGAAGATGGCAGACTCTGGAGGGCTGCCCAAGTGCACAGCCAGGGAAGCTGACTGAAGCCTTCAA  
TACTTCTGCAAGGCATGGGCTACATTGCGTACTTGAAGGACCGAAGGCTGAGTGGAGGAGCAGTGCCT  
CAGCCAGCATGACCCGCTGGCACGCTCCGCACTGCATCCCTCACCAGTGCAGCTCGGTGGATGGCAG  
CCGCCACAGGCTGCACCCACTCAGAGAGCAGCGAGGGGCTGGGCCAGGTCAACCACACCATGGAGGTG  
TCCTGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233847 representing NM\_001242835  
 Red=Cloning site Green=Tags(s)

MPECWDGEHDIETPYGLLHVIRGSPKGNRPAILTYHDVGLNHKLCFNFFNFEDMQEITKHFVCHVDA  
 PGQVVGASQFPQGYQFSPMEQLAAMLPSVVQHFQYVIGIVGAGAYVLAKFALIFPDLVEGLVNVNID  
 PNGKGWIDWAATKLSGLTSTLPDVTLSHLFSQEELVNTELVSQYRQYQIGNVVNQANLQLFWMYNSRRD  
 LDINRPGTVPNAKTLRCPVMLVVDNAPAEDGVVECNKLDPTTTTFLKMDSSGGLPQVTQPGKLEAFK  
 YFLQGMGYIAYLKDRRLSGGAVPSASMTLRARSRTASLTSASSVDGSRPQACTHSESSEGLGQVNHTEV  
 SC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001242835

**ORF Size:** 1056 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\\_001242835.1](#), [NP\\_001229764.1](#)

**RefSeq Size:** 3229 bp

**RefSeq ORF:** 1059 bp

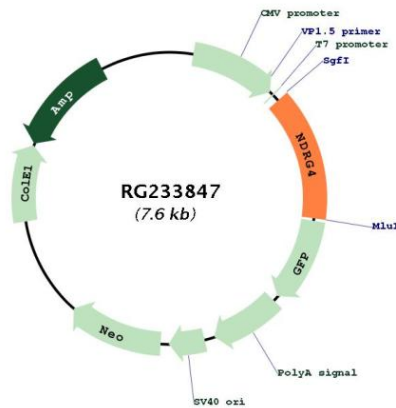
**Locus ID:** 65009

**UniProt ID:** [Q9ULP0](#)

**Cytogenetics:** 16q21

**Gene Summary:** This gene is a member of the N-myc downregulated gene family which belongs to the alpha/beta hydrolase superfamily. The protein encoded by this gene is a cytoplasmic protein that is required for cell cycle progression and survival in primary astrocytes and may be involved in the regulation of mitogenic signalling in vascular smooth muscles cells. Alternative splicing results in multiple transcripts encoding different isoforms.[provided by RefSeq, Jun 2011]

**Product images:**



Circular map for RG233847