

## Product datasheet for RC233847

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG4 (NM_001242835) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDRG4
Synonyms:	BDM1; SMAP-8; SMAP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233847 representing NM_001242835 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGAGTGTGGGATGGGGAACATGACATCGAGACACCCTACGGCCTTCTGCATGTAGTGATCCGGG  
GCTCCCCAAGGGGAACCGCCAGCCATCCTCACCTACCATGATGTGGGCCTCAACCACAACTATGCTT  
CAACACCTTCTCAACTTCGAGGACATGCAGGAGATCACCAAGCACTTTGTGGTGTGCACGTGGATGCC  
CCTGGACAACAGGTGGGGCGTCGCAGTTTCTCAGGGGTACCAGTTCCTCCATGGAGCAGCTGGCTG  
CCATGCTCCCCAGCGTGGTGCAGCATTTCCGGTCAAGTATGTGATTGGCATCGGAGTGGGCGCCGGAGC  
CTATGTGCTGGCCAAGTTTGCACTCATCTTCCCCGACCTGGTGGAGGGGCTGGTGCCTGGTAAACATCGAC  
CCCAATGGCAAAGGCTGGATAGACTGGGCTGCCACCAAGCTCTCCGGCCTAACTAGCACTTTACCCGACA  
CGGTGCTCTCCCACCTCTTCAGCCAGGAGGAGCTGGTGAACAACACAGAGTTGGTGCAGAGCTACCGGCA  
GCAGATTGGGAACGTGGTGAACCAGGCCAACCTGCAGCTCTTCTGGAACATGTACAACAGCCGAGAGAC  
CTGGACATTAACCGCCCTGGAACGGTGCCAATGCCAAGACGCTCCGCTGCCCGTGATGCTGGTGGTTG  
GGGATAATGCACCCGCTGAGGACGGGGTGGTGGAGTGAACCTCCAACCTGGACCCGACCACTACGACCTT  
CCTGAAGATGGCAGACTCTGGAGGGCTGCCCAAGTACACAGCCAGGGAAGCTGACTGAAGCCTTCAA  
TACTTCTGCAAGGCATGGGCTACATTGCGTACTTGAAGGACCGAAGGCTGAGTGGAGGAGCAGTGCCCT  
CAGCCAGCATGACCCGCTGGCACGCTCCGCACTGCATCCCTACCAAGTCCAGCTCGGTGGATGGCAG  
CCGCCACAGGCTGCACCCACTCAGAGAGCAGCGAGGGGCTGGGCCAGGTCAACCACACCATGGAGGTG  
TCCTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233847 representing NM\_001242835  
Red=Cloning site Green=Tags(s)

MPECWDGEHDIETPYGLLHVIVIRGSPKGNRPAILTYHDVGLNHHKLCFNTEFFNFEDMQEITKHFVCHVDA  
 PGQVVGASQFPQGYQFSPMEQLAAMLPSVVQHFQYVIGIVGAGAYVLAKFALIFPDLVEGLVLVNIID  
 PNGKGWIDWAATKLSGLTSTLPDVTLSHLFSQEELVNTELVSQYRQYQIGNVNQANLQLFWMYNSRRD  
 LDINRPGTVPNAKTLRCPVMLVVDNAPAEDGVVECNKLDPTTTTFLKMSGGLPQVTQPGKLEAFK  
 YFLQGMGYIAYLKDRRLSGGAVPSASMTLARSRTASLTSASSVDGSRPQACTHSESSEGLGQVNHMTMEV  
 SC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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

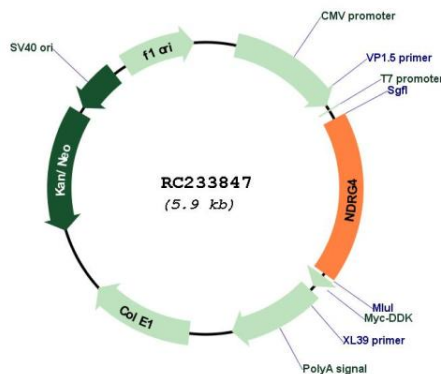
**UniProt ID:** [Q9ULP0](#)

**Cytogenetics:** 16q21

**MW:** 38.9 kDa

**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 RC233847