

## Product datasheet for **SC108447**

### **NDRG4 (NM\_020465) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG4 (NM_020465) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDRG4
Synonyms:	BDM1; SMAP-8; SMAP8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108447 sequence for NM_020465 edited (data generated by NextGen Sequencing)

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ATGGCCGGGCTGCAGGAGCTGCGATTCCCTGAGGAGAAGCCGCTGCTCCGGGGCCAGGAC
GCCACCGAGCTGGAGAGCTCCGATGCCTTCTTGGCTGCAGACACAGACTGGAAGGAA
CATGACATCGAGACACCTACGGCTTCTGCATGTAGTGATCCGGGGCTCCCCAAGGGG
AACCGCCAGCCATCCTCACCTACCATGATGTGGGCTCAACCACAACTATGCTTCAAC
ACCTTCTCAACTTCGAGGACATGCAGGAGATCACCAAGCACTTTGTGGTGTGTCACGTG
GATGCCCTGGACAACAGGTGGGGCGTCGCAGTTTCTCAGGGGTACCAGTTCCCTCC
ATGGAGCAGCTGGCTGCCATGCTCCCCAGCGTGGTGCAGCATTTTCGGTTCAAGTATGTG
ATTGGCATCGGAGTGGGCGCCGAGCCTATGTGCTGGCCAAGTTTGCACATCTTCCCC
GACCTGGTGGAGGGGCTGGTGTGGTGAACATCGACCCAATGGCAAAGGCTGGATAGAC
TGGGCTGCCACCAAGCTCTCCGGCTAACTAGCACTTTACCCGACACGGTCTCTCCAC
CTTTCAGCCAGGAGGAGCTGGTGAACAACACAGAGTTGGTGCAGAGCTACCGGCAGCAG
ATTGGGAACGTGGTGAACCAGGCCAACCTGCAGCTCTTCTGGAACATGTACAACAGCCGC
AGAGACCTGGACATTAACCGGCTGGAACGGTGCCTCAATGCCAAGACGCTCCGCTGCCCC
GTGATGCTGGTGGTTGGGGATAATGCACCCGCTGAGGACGGGGTGGTGGAGTGAACCTC
AACTGGACCCGACCACTACGACCTTCTGAAGATGGCAGACTCTGGAGGGCTGCCCCAG
GTCACACAGCCAGGGAAGCTGACTGAAGCCTTCAAATACTTCTGCAAGGCATGGGCTAC
ATGCCCTCAGCCAGCATGACCCGCTGGCAGCTCCCGCACTGCATCCCTCACCAGTGCC
AGCTCGGTGGATGGCAGCCGCCACAGGCCTGCACCCACTCGGAGAGCAGCGAGGGGCTG
GGCCAGGTCAACCACACCATGGAGGTGTCTGTGA

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Clone variation with respect to NM\_020465.3  
1062 a=>g



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020465 unedited  
 GCATTTGTATACGACTACTATAGGCGGCCGGAATTCGGCACGAGGCCCGCACCTGCAC  
 CCGCGCGTCGGCGGCCGCGAAGCCCCGCTCCCCGCTGCGCGTCTGTCTCGTCCGCATCT  
 CCGCGGCTCCTGCTCCACGACGTGACCATGGCCGGGCTGCAGGAGCTGCGATTCCCTGA  
 GGAGAAGCCGCTGCTCCGGGGCCAGGACGCCACCGAGCTGGAGAGCTCCGATGCCTTCT  
 CTTGGCTGCAGACACAGACTGGAAGGAACATGACATCGAGACACCCTACGGCCTTCTGCA  
 TGTAGTGATCCGGGGCTCCCCAAGGGGAACCGCCAGCCATCCTCACCTACCATGATGT  
 GGGCCTCAACCACAACTATGCTTCAACACCTTCTTCAACTTCGAGGACATGCAGGAGAT  
 CACCAAGCACTTTGTGGTGTGTACGTGGATGCCCTGGACAACAGGTGGGGGCGTCGCA  
 GTTTCCTCAGGGTACCAGTTCCCTCCATGGAGCAGCTGGTGCATGCTCCCCAGCGT  
 GGTGCAGATTTTCGGTTCAAGTATGTGATTGGCATCGGAGTGGGCGCCGGAGCCTATGT  
 GCTGGCCAAGTTTGCATCATCTCCCCGACCTGGTGGAGGGGCTGGTGTGGTGAACAT  
 CGACCCCAATGGCAAAGGCTGGATAGACTGGGCTGCCACCAAGCTCTCCGGCCTAACTAG  
 CACTTTACCCGACACGGTCTCTCCACCTTTCAGCCCAGAGGAGCTGGTGAACACACA  
 GAGNTGGTGCAGAGCTACCGGCAGCAGATTGNGAACGTGGGTGACCANNGCCACCTGCAG  
 CTCTTCTGGACATGTACACAGCCGAGAACCTGGACATTACCCGCTGGNNACGTGCCCA  
 TGCCAGACGCTCGCTGCCCGGATGCTGTGGNTGGGATATGCACCTGAGGACGGGGGTG  
 GAGGCACTN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_020465 unedited  
 CTACTCTGNAACGACGGCCGCTATTCTAGNGATCAGNCCCTTTTTTTTTTTTTTTTTTTT  
 TTCTTTTCTTTCTTCTTCTAAGGGCCCTTATTAGTTTTTTCAGCAGAGTTAACTCTTTCT  
 ACGTTGACTAAAGTTTTGTTTTACATTTTATCATCTCATGACAGCAGCCACCAAAATACA  
 CAAAATTAGGCTCTTACTTTGGGCGGGAAAAAAAATAATAAACATTAAAGTTCACCT  
 TGACCAAAGAAACAACCTCCAAAAAACACCACACATGGGAGGACCCGATGTACACACAC  
 ACACACACACATATAAGGTATAGATATTTATAGATACATCTGGAAACAGCAAAAAACA  
 AAATCCAAGATTTGCAGGGTTATCTACAGTAAAGGGATGAATTCTACCAGCTTTCAA  
 CAGTCACATTCAGTATTCAAAAAAGCAGATGAGGGGGTAAAACCTGGGCAAAAACTAACA  
 CGCCACCAGGCTAGTCATGGCTTAAAATATAAAAGGGGGGGATGGGTGTAGAGGAAAT  
 ACCCATATAGGGTCTCTCAGCCTAAAAACCCGCCACAACCCTTCCCCGTCACAG  
 CCCTGCATGTTTTCACTGCTTTCTCCCGTTTGGGGTTTGGGATTATTGATTAAGGGCT  
 GAAACAAATGGCTTTGGTTTCTGGCCCTAAGATGCTATGGGAAAGGGAGCGGATGGA  
 AAACATACAACCCATTCTGGGCTTAAGGGGACACAAAGAGCTGGGGTGAAGGGGAAACC  
 TTCTTTTACCCGACCCTGTTATGTCCAGACCTTAACCCCATTTAGCCCATCCAGGCGT  
 TATGGGGTGGGACCGGAAACCCTGCTGCCTTGGGCCATAGACTAATAACCTCTTTTTT  
 CTTATGGGGCGCCGGGACAACCTGGACATCCGGACAAAGCTTGCCTAAAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_020465

**Insert Size:**

3000 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:**

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\\_020465.2](#), [NP\\_065198.1](#)

**RefSeq Size:** 3288 bp

**RefSeq ORF:** 1116 bp

**Locus ID:** 65009

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

**Cytogenetics:** 16q21

**Domains:** Ndr

**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]

Transcript Variant: This variant (1) differs in the 5' UTR which results in the use of an in-frame downstream translation initiation codon, compared to variant 2. The encoded protein (isoform 1; also known as NDRG4-H) has a shorter N-terminus, compared to isoform 2. Variants 1 and 3 encode the same isoform.