

## Product datasheet for **SC331893**

### **NDRG4 (NM\_001242835) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NDRG4 (NM\_001242835) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** NDRG4  
**Synonyms:** BDM1; SMAP-8; SMAP8  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331893 representing NM\_001242835.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGCCGGAGTGTGGGATGGGGAACATGACATCGAGACACCCTACGGCCTTCTGCATGTAGTGATCCGG
GGCTCCCCAAGGGGAACCGCCAGCCATCCTCACCTACCATGATGTGGGCCTCAACCACAACTATGC
TTCAACACCTTCTCAACTTCGAGGACATGCAGGAGATCACCAAGCACTTGTGGTGTGTCACGTGGAT
GCCCTGGACAACAGGTGGGGCGTCGCAGTTTCCCTCAGGGGTACCAGTCCCCTCCATGGAGCAGCTG
GCTGCCATGCTCCCAGCGTGGTGCAGCATTTCCGGTTCAAGTATGTGATTGGCATCGGAGTGGGCGCC
GGAGCCTATGTGCTGGCCAAGTTTGCACCTCATCTCCCCGACCTGGTGGAGGGGCTGGTGTGGTGAAC
ATCGACCCCAATGGCAAAGGCTGGATAGACTGGGCTGCCACCAAGCTCTCCGGCCTAACTAGCACTTTA
CCCAGACCGGTGCTCTCCCACCTCTTACGCCAGGAGGAGCTGGTGAACAACACAGAGTTGGTGCAGAGC
TACCGGCAGCAGATTGGGAACGTGGTGAACCAGGCCAACCTGCAGCTCTTCTGGAACATGTACAACAGC
CGCAGAGACCTGGACATTAACCGGCCTGGAAACGGTGCCTCAATGCCAAGACGCTCCGCTGCCCCGTGATG
CTGGTGGTTGGGATAATGCACCCGCTGAGGACGGGGTGGTGGAGTGCAACTCCAACTGGACCCGACC
ACTACGACCTTCTGAAGATGGCAGACTCTGGAGGGCTGCCCCAGGTCACACAGCCAGGGAAGCTGACT
GAAGCCTTCAAATACTTCTGCAAGGCATGGGCTACATTGCGTACTTGAAGGACCGAAGGCTGAGTGGA
GGAGCAGTGCCCTCAGCCAGCATGACCCGCTGGCAGCTCCCGCACTGCATCCCTCACCAGTGCCAGC
TCGGTGGATGGCAGCCGCCCACAGGCCTGCACCCACTCAGAGAGCAGCGAGGGGCTGGCCAGGTCAAC
CACACCATGGAGGTGTCCTGTGA
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001242835  
**Insert Size:** 1059 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).



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<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>	<a href="#">NM_001242835.1</a>
<b>RefSeq Size:</b>	3229 bp
<b>RefSeq ORF:</b>	1059 bp
<b>Locus ID:</b>	65009
<b>UniProt ID:</b>	<a href="#">Q9ULP0</a>
<b>Cytogenetics:</b>	16q21
<b>MW:</b>	38.5 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (6) has multiple differences at the 5' end which result in the use of a distinct translation initiation codon and an additional exon in the 3' coding region, compared to variant 2. The encoded protein (isoform 6; also known as NDRG4-Bvar) has a shorter and distinct N-terminus and longer C-terminus, compared to isoform 2.</p>