

## Product datasheet for **SC332707**

### **NDRG1 (NM\_001258433) Human Untagged Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** NDRG1 (NM\_001258433) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** NDRG1  
**Synonyms:** CAP43; CMT4D; DRG-1; DRG1; GC4; HMSNL; NDR1; NMSL; PROXY1; RIT42; RTP; TARG1; TDD5  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332707 representing NM\_001258433.  
**Blue**=Insert sequence **Red**=Cloning site **Green**=Tag(s)

```
ATGCAGGAGATCACCCAGCACTTTGCCGTCTGCCACGTGGACGCCCTGGCCAGCAGGACGGCGCAGCC
TCCTTCCCGCAGGGTACATGTACCCCTCCATGGATCAGCTGGCTGAAATGCTTCCTGGAGTCCTCAA
CAGTTTGGGCTGAAAAGCATTATTGGCATGGGAACAGGAGCAGGGCCTACATCCTAACTCGATTTGCT
CTAAACAACCCTGAGATGGTGGAGGGCCTTGCTCTTATCAACGTGAACCTTGTGCGGAAGGCTGGATG
GACTGGGCCGCTCCAAGATCTCAGGATGGACCAAGCTCTGCCGACATGGTGGTGTCCCACCTTTTT
GGGAAGGAAGAAATGCAGAGTAACGTGGAAGTGGTCCACACCTACCGCCAGCACATTGTGAATGACATG
AACCCCGCAACCTGCACCTGTTTCATCAATGCCTACAACAGCCGGCGCAGCTGGAGATTGAGCGACCA
ATGCCGGGAACCCACACAGTCACCTGCAGTGCCTGCTCTGTTGGTGGTTGGGGACAGCTCGCCTGCA
GTGGATGCCGTGGTGGAGTGCAACTCAAATTTGGACCAACAAAGACCACTCTCCTCAAGATGGCGGAC
TGTGGCGGCTCCCGCAGATCTCCAGCCGGCCAAGCTCGCTGAGGCCTTCAAGTACTTCGTGCAGGGC
ATGGGATACATGCCCTCGGCTAGCATGACCCGCTGATGCGGTCCCGCACAGCCTCTGGTTCCAGCGTC
ACTTCTCTGGATGGCACCCGAGCCGCTCCACACCAGCGAGGGGCCACCTGGACATCACCCCAACTCGGGTGT
GCTGGGAACAGCGCCGGGCCAAGTCCATGGAGGTCTCCTGTAG
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001258433  
**Insert Size:** 942 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\\_001258433.1](#)

**RefSeq Size:** 3017 bp

**RefSeq ORF:** 942 bp

**Locus ID:** 10397

**UniProt ID:** [Q92597](#)

**Cytogenetics:** 8q24.22

**MW:** 33.7 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 involved in stress responses, hormone responses, cell growth, and differentiation. The encoded protein is necessary for p53-mediated caspase activation and apoptosis. Mutations in this gene are a cause of Charcot-Marie-Tooth disease type 4D, and expression of this gene may be a prognostic indicator for several types of cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

Transcript Variant: This variant (4) lacks an internal exon and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1.