

Product datasheet for **SC332706**

NDRG1 (NM_001258432) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG1 (NM_001258432) 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:	>SC332706 representing NM_001258432. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAACCACAAAACCTGCTACAACCCCTCTTCAACTACGAGGACATGCAGGAGATCACCCAGCACTTT
GCCGTCTGCCACGTGGACGCCCTGGCCAGCAGGACGGCGCAGCCTCCTTCCCGCAGGGTACATGTAC
CCCTCCATGGATCAGCTGGCTGAAATGCTTCTGGAGTCTTCAACAGTTTGGGCTGAAAAGCATTATT
GGCATGGGAACAGGAGCAGGCGCCTACATCCTAACTCGATTTGCTCTAACAACCCTGAGATGGTGGAG
GGCCTTGTCTTATCAACGTGAACCTTGTGCGGAAGGCTGGATGGACTGGGCCGCTCCAAGATCTCA
GGATGGACCCAAGCTCTGCCGACATGGTGGTGTCCCACCTTTTGGGAAGGAAGAAATGCAGAGTAAC
GTGGAAGTGGTCCACACCTACCGCCAGCACATTGTGAATGACATGAACCCGGCAACCTGCACCTGTTC
ATCAATGCCTACAACAGCCGGCGGACCTGGAGATTGAGCGACCAATGCCGGGAACCCACACAGTACC
CTGCAGTGCCTGCTCTGTTGGTGGTGGGGACAGCTCGCCTGCAGTGGATGCCGTGGTGGAGTGAAC
TCAAAATTGGACCAACAAGACCCTCTCCTCAAGATGGCGGACTGTGGCGGCCCTCCCGCAGATCTCC
CAGCCGGCCAAGCTCGTGAGGCCTTCAAGTACTTCGTGCAGGGCATGGGATACATGCCCTCGGCTAGC
ATGACCCGCTGATGCGGTCCCGCACAGCCTCTGGTTCACAGCTCACTTCTCTGGATGGCACCCGACG
CGCTCCACACACAGCGAGGGCACCCGAAGCCGCTCCACACACAGCGAGGGCACCCGACCCGCTCGCAC
ACCAGCGAGGGGGCCACCTGGACATCACCCCAACTCGGGTGTCTGCTGGGAACAGCGCCGGGCCAAG
TCCATGGAGTCTCTCTAG
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001258432
Insert Size:	987 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_001258432.1](#)

RefSeq Size: 3006 bp

RefSeq ORF: 987 bp

Locus ID: 10397

UniProt ID: [Q92597](#)

Cytogenetics: 8q24.22

MW: 35.5 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 (3) lacks two consecutive internal exons and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1.