

Product datasheet for **SC325042**

NDRG1 (NM_001135242) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG1 (NM_001135242) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDRG1
Synonyms:	CAP43; CMT4D; DRG-1; DRG1; GC4; HMSNL; NDR1; NMSL; PROXY1; RIT42; RTP; TARG1; TDD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001135242 edited
 CTGGTGCCTGAAGCTCGTCAGTTCACCATCCGCCCTCGGCTTCCGCGGGGCGCTGGGCCCG
 CAGCCTCGGCACCGTCTTTCTTTCTCCCTCGCGTTAGCAGGTGACAGCAGGGACATG
 TCTCGGGAGATGCAGGATGTAGACCTCGCTGAGGTGAAGCCTTTGGTGGAGAAAGGGGAG
 ACCATCACCGGCCTCCTGCAAGAGTTTGATGTCCAGGAGCAGGACATCGAGACTTTACAT
 GGCTCTGTTACGTCACGCTGTGTGGGACTCCCAAG:GGAAACCGGCCTGTATCCTCAC
 CTACCATGACATCGGCATGAACCACAAAACCTGCTACAACCCCTCTTCAACTACGAGGA
 CATGCAGGAGATCACCCAGCACTTTGCCGTCTGCCACGTGGACGCCCTGGCCAGCAGGA
 CGGCGCAGCCTCCTTCCCGCAGGGTACATGTACCCCTCCATGGATCAGCTGGCTGAAAT
 GCTTCTGGAGTCTTCAACAGTTTGGGCTGAAAAGCATTATTGGCATGGGAACAGGAGC
 AGGCGCCTACATCCTAACTCGATTTGCTCTAAACAACCCTGAGATGGTGGAGGGCCTTGT
 CCTATCAACGTGAACCTTGTGCGGAAGGCTGGATGGACTGGGCGCCTCCAAGATCTC
 AGGATGGACCCAAGCTCTGCCGGACATGGTGGTGTCCACCTTTTTGGGAAGGAAGAAAT
 GCAGAGTAACGTGGAAGTGGTCCACACCTACCGCCAGCACATTGTGAATGACATGAACCC
 CGGCAACCTGCACCTGTTCAATGCCTACAACAGCCGGCGCGACCTGGAGATTGAGCG
 ACCAATGCCGGGAACCCACACAGTACCCTGCAGTGCCCTGCTCTGTTGGTGGTTGGGA
 CAGCTCGCCTGCAGTGGATGCCGTGGTGGAGTGCAACTCAAATTTGGACCAACAAGAC
 CACTCTCTCAAGATGGCGGACTGTGGCGGCCTCCCGCAGATCTCCAGCCGGCCAAGCT
 CGCTGAGGCCTTCAAGTACTTTCGTGCAGGGCATGGGATACATGCCCTCGGCTAGCATGAC
 CCGCCTGATGCGGTCCCGCACAGCCTCTGGTTCAGCGTCACTTCTCTGGATGGCACCCG
 CAGCCGCTCCACACCAGCGAGGGCACCCGAAGCCGCTCCACACCAGCGAGGGCACCCG
 CAGCCGCTCGCACACCAGCGAGGGGGCCACCTGGACATCACCCCAACTCGGGTGTGC
 TGGGAACAGCGCCGGGCCAAGTCCATGGAGGTCTCTGCTAGGCGGCCTGCCAGCTGC
 CGCCCCGGACTCTGATCTGTAGTGGCCCCCTCTCCCGGCCCTTTTCGCCCCCTG
 CCTGCCATACTGCGCCTAACTCGGTATTAATCAAAGCTATTTTGTAAAGAGTGAGCTCT
 GGTGGAGACAAAAGAGTCTATTACGTGGGTGCCCTCTCAAAGCGGGGTGGCGGTGGA
 CCAAAGGAAGGAAGCAAGCATCTCCGCATCGCATCCTCTCCATTAACCAAGTGGCCGGTT



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GCCACTCTCCTCCCCTCCCTCAGAGACACCAAACCTGCCAAAAACAAGACGCGTAGCAGCA
CACACTTCACAAAGCCAAGCCTAGGCCGCCCTGAGCATCTGGTTCAAACGGGTGCCTGG
TCAGAAGGCCAGCCGCCACTTCCCCTTTCTCTTAACTGAGGAGAAGCTGATCCAGTT
TCCGGAACAAAAATCCTTTTCTCATTGGGGAGGGGGTAATAGTGACATGCAGGCACCT
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TTTGAACAACAATCTACGTAGTTAACTTGAAGAAACCGATTTTTAAAGTTGGTGCATC
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AGCAAAAGCAGGCAACAAAATCTCCTGGCTTACAGACAAAAATTTTCAGCAAAACGTTG
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TCCCACCCTGATACATGAGCCAGTGATTATTCTTGTTCCAGGAGAAGATCATTTAGATT
TGTTTTGCATTCTTAGAATGGAGGGCAACATTCCACAGCTGCCCTGGCTGTGATGAGTG
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CTGGAACGTGAACCTCAGTAGCTGAACCTGTCTGACCCGGTCACGTTCTTGATCCTCAGA
ACTCTTGCTCTTGTCGGGTGGGGTGGAACTCACGTGGGGAGCGGTGGCTGAGAAAAT
GTAAGGATTCTGGAATACATATTCCATGGGACTTTCCTTCCCTCTCCTGCTTCTCTTTT
CCTGCTCCCTAACCTTTCGCCGAATGGGGCAGCACCACTGACGTTTCTGGGCGGCCAGTG
CGGCTGCCAGGTTCTGTACTACTGCCTTGTACTTTTCAATTTGGCTCACCGTGGATTTT
CTCATAGGAAGTTTGGTCAGAGTGAATTGAATATTGTAAGTCAGCCACTGGGACCCGAGG
ATTTCTGGGACCCCGAGTTGGGAGGAGGAAGTAGTCCAGCCTCCAGGTGGCGTGAGAG
GCAATGACTCGTTACCTGCCCCATCACCTTGGAGGCCTTCCCTGGCCTTGAGTAGAAA
AGTCGGGGATCGGGCAAGAGAGGCTGAGTACGGATGGGAACTATTGTGCACAAGTCTT
TCCAGAGGAGTTTCTTAATGAGATATTTGATTTATTTCCAGACCAATAAATTTGTAAC
TTGCAAAAAAAAAAAAAAAAAA
```

Restriction Sites:

Please inquire

ACCN:

NM_001135242

Insert Size:

3000 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001135242.1.

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_001135242.1](#), [NP_001128714.1](#)

RefSeq Size: 3520 bp

RefSeq ORF: 1185 bp

Locus ID: 10397

UniProt ID: [Q92597](#)

Cytogenetics: 8q24.22

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 (1) represents the longest transcript. Variants 1 and 2 encode the same isoform (1).