

Product datasheet for **SC321592**

NDRG1 (NM_006096) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG1 (NM_006096) 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_006096.2
CTGGTGTGAAGCTCGTCAGTTCACCATCCGCCCTCGGCTTCCGCGGGGCGCTGGGCCG
CAGCCTCGGCACCGTCTTTCTTTCTCCCTCGCGTTAGGCAGGTGACAGCAGGGACATG
TCTCGGGAGATGCAGGATGTAGACCTCGCTGAGGTGAAGCCTTTGGTGGAGAAAGGGGAG
ACCATCACCGGCCTCCTGCAAGAGTTTGTGTCCAGGAGCAGGACATCGAGACTTTACAT
GGCTCTGTTACGTCACGCTGTGTGGGACTCCCAAGGAAACCGCCTGTCATCCTCACC
TACCATGACATCGGCATGAACCACAAAACCTGCTACAACCCCTCTTCAACTACGAGGAC
ATGCAGGAGATCACCCAGCACTTGGCGTCTGCCACGTGGACGCCCTGGCCAGCAGGAC
GGCGCAGCCTCCTCCCCGAGGTACATGTACCCTCCATGGATCAGCTGGCTGAAATG
CTTCTGGAGTCTTCAACAGTTTGGGCTGAAAAGCATTATTGGCATGGGAACAGGAGCA
GGCGCCTACATCCTAACTCGATTTGCTCTAAACAACCCTGAGATGGTGGAGGGCCTTGTC
CTTATCAACGTGAACCTTGTGCGGAAGGCTGGATGGACTGGGCCGCTCCAAGATCTCA
GGATGGACCCAAGCTCTGCCGGACATGGTGGTGTCCCACCTTTTTGGGAAGGAAGAAATG
CAGAGTAACGTGGAAGTGGTCCACACCTACCGCCAGCACATTGTGAATGACATGAACCC
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CCAATGCCGGGAACCCACACAGTCAACCTGCAGTGCCCTGCTCTGTTGGTGGTGGGGAC
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GCTGAGGCCTTCAAGTACTTCGTGCAGGGCATGGGATACATGCCCTCGGCTAGCATGACC
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GTGGAGACAAATGAGGTCTATTACGTGGGTGCCCTCTCAAAGCGGGGTGGCGGTGGAC
CAAAGGAAGGAAGCAAGCATCTCCGCATCGCATCTTCCATTAACCAAGTGGCCGGTTG



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CAGAAGGCCAGCCGCCCACTTCCCGTTTCTCTTAACTGAGGAGAAGCTGATCCAGTTT
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GTCGGGGATCGGGCAAGAGAGGCTGAGTACGGATGGGAACTATTGTGCACAAGTCTTT
CCAGAGGAGTTTTCTTAATGAGATATTTGTATTTATTTCCAGACCAATAAAATTTGAACTT
TGCAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_006096
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_006096.2](#), [NP_006087.2](#)
- RefSeq Size:** 3074 bp

RefSeq ORF: 1185 bp

Locus ID: 10397

UniProt ID: [Q92597](#)

Cytogenetics: 8q24.22

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 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 (2) uses an alternate splice site in the 5' UTR. Variants 1 and 2 encode the same isoform (1).