

## Product datasheet for **RC233730**

### **NDRG1 (NM\_001258433) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG1 (NM_001258433) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDRG1
Synonyms:	CAP43; CMT4D; DRG-1; DRG1; GC4; HMSNL; NDR1; NMSL; PROXY1; RIT42; RTP; TARG1; TDD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233730 representing NM_001258433 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGGAGATCACCCAGCACTTTGCCGTCTGCCACGTGGACGCCCTGGCCAGCAGGACGGCGCAGCCT  
CCTTCCCCGCAGGGTACATGTACCCCTCCATGGATCAGCTGGCTGAAATGCTTCTGGAGTCTTCAACA  
GTTTGGGCTGAAAAGCATTATTGGCATGGGAACAGGAGCAGGCGCCTACATCCTAACTCGATTTGCTCTA  
AACAAACCCTGAGATGGTGGAGGGCCTTGTCTTATCAACGTGAACCCTTGTGCGGAAGGCTGGATGGACT  
GGCCCGCCTCAAGATCTCAGGATGGACCAAGCTCTGCCGACATGGTGGTGTCCACCTTTTTGGGAA  
GGAAGAAATGCAGAGTAACGTGGAAGTGGTCCACACCTACCGCCAGCACATTGTGAATGACATGAACCC  
GGCAACCTGCACCTGTTCATCAATGCCTACAACAGCCGGCGGACCTGGAGATTGAGCGACCAATGCCGG  
GAACCCACACAGTCACCCTGCAGTGCCTGCTCTGTTGGTGGTTGGGACAGCTCGCCTGCAGTGGATGC  
CGTGGTGGAGTGAACCTCAAAATTGGACCAACAAGACCACTCTCCTCAAGATGGCGGACTGTGGCGGC  
CTCCCGCAGATCTCCAGCCGGCAAGCTCGTGAGGCCCTCAAGTACTTCGTGCAGGGCATGGGATACA  
TGCCCTCGGCTAGCATGACCCGCTGATGCGGTCCCGCACAGCCTCTGGTCCAGCGTCACTTCTCTGGA  
TGGACCCGCAGCCGCTCCACACCAGCGAGGGGCCACCCGAAGCCGCTCCACACCAGCGAGGGCACCCGC  
AGCCGCTCGCACACCAGCGAGGGGCCACCTGGACATCACCCCAACTCGGGTGTCTGGAACAGCG  
CGGGCCCAAGTCCATGGAGGTCTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233730 representing NM\_001258433  
Red=Cloning site Green=Tags(s)

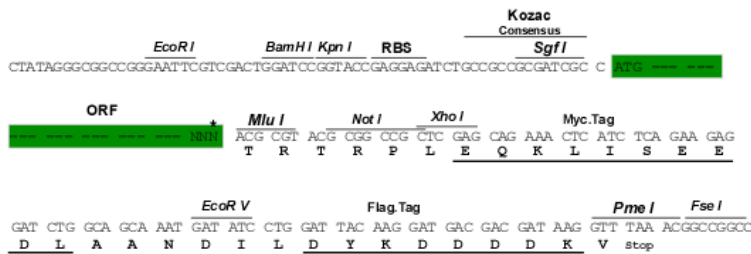
MQEITQHFVAVCHVDAPGQQDGAASFPAGYMYPMSMDQLAEMLPGLVQQFGLKSIIGMTGAGAYILTRFAL  
 NNPEMVEGLVLINVNPCAEGWMDWAASKISGWTQALPDMVVSHLFGKEEMQSNVEVVHTYRQHIVNDMNP  
 GNLHLFINAYNSRRDLEIERPMPGTHVTLQCPALLVVDSSPAVDAVVECNKLDPTKTLLKMACDGG  
 LPQISQPAKLAEAFKYFVQGMGYMPSASMTRLMSRTASGSSVSLDGTSRSRHTSEGTRSRSRHTSEGTR  
 SRSRHTSEGAHLDITPNSGAAGNSAGPKSMEVSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001258433

**ORF Size:** 939 bp

**OTI Disclaimer:** 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:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001258433.2](#)

**RefSeq Size:** 3017 bp

**RefSeq ORF:** 942 bp

**Locus ID:** 10397

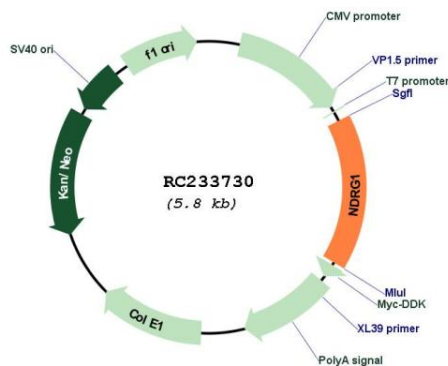
**UniProt ID:** [Q92597](#)

**Cytogenetics:** 8q24.22

**MW:** 34.1 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]

### Product images:



Circular map for RC233730