

Product datasheet for **RG201374**

NDRG1 (NM_006096) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG1 (NM_006096) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDRG1
Synonyms:	CAP43; CMT4D; DRG-1; DRG1; GC4; HMSNL; NDR1; NMSL; PROXY1; RIT42; RTP; TARG1; TDD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201374 representing NM_006096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCGGGAGATGCAGGATGTAGACCTCGCTGAGGTGAAGCCTTTGGTGGAGAAAGGGGAGACCATCA
CCGGCCTCCTGCAAGAGTTTGATGTCCAGGAGCAGGACATCGAGACTTTACATGGCTCTGTTACGTCAC
GCTGTGTGGGACTCCCAAGGAAACCGCCTGTCATCCTCACCTACCATGACATCGGCATGAACCACAAA
ACCTGCTACAACCCCTTCAACTACGAGGACATGCAGGAGATCACCCAGCACTTTGCCGTCTGCCACG
TGGACGCCCTGGCCAGCAGGACGGCGCAGCCTCCTTCCCGCAGGGTACATGTACCCCTCCATGGATCA
GCTGGCTGAAATGCTTCCTGGAGTCCTAACAGTTTGGGCTGAAAAGCATTATTGGCATGGGAACAGGA
GCAGGCGCCTACATCCTAACTCGATTTGCTCTAAACAACCCTGAGATGGTGGAGGGCCTTGCTCTTATCA
ACGTGAACCCCTTGTCGGAAGGCTGGATGGACTGGGCCGCTCCAAGATCTCAGGATGGACCCAAGCTCT
GCCGGACATGGTGGTGTCCCACCTTTTGGGAAGGAAGAAATGCAGAGTAACGTGGAAGTGGTCCACACC
TACCGCCAGCACATTGTGAATGACATGAACCCGGCAACCTGCACCTGTTCAATGCCTACAACAGCC
GGCGGACCTGGAGATTGAGCGACCAATGCCGGGAACCCACACAGTCACCCCTGCAGTGCCTGCTCTGTT
GGTGGTTGGGGACAGCTCGCCTGCAGTGGATGCCGTGGTGGAGTGCAACTCAAAATTGGACCAACAAG
ACCACTCCTCAAGATGGCGGACTGTGGCGCCTCCCGCAGATCTCCAGCCGCAAGCTCGCTGAGG
CCTTCAAGTACTTCGTGCAGGGCATGGGATACATGCCCTCGGCTAGCATGACCCGCTGATGCGGTCCCG
CACAGCCTCTGGTTCCAGCGTCACTTCTCTGGATGGCACCCGAGCCGCTCCACACCAGCGAGGGCACC
CGAAGCCGCTCCACACCAGCGAGGGCACCCGAGCCGCTCGCACACCAGCGAGGGGGCCACCTGGACA
TACCCCCAACTCGGGTCTGCTGGGAACGCGCCGGGCCAAGTCCATGGAGGTCTCTGCTC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

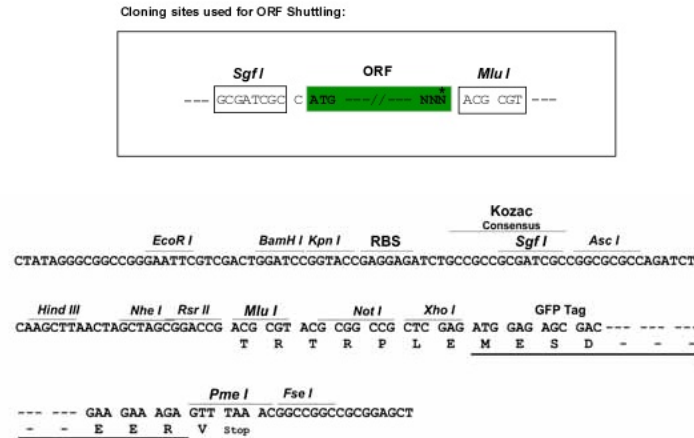
Protein Sequence: >RG201374 representing NM_006096
 Red=Cloning site Green=Tags(s)

MSREMQDVDLAEVKPLVEKGETITGLLQEFDVQEQDIETLHGSVHVTLGCTPKGNRPVILTYHDIGMNHK
 TCYNPLFNYEDMQEITQHFVAVCHVDAPGQQDGAASFAPAGYMYPMSMDQLAEMLPGLVQQFGLKSIIGMGTG
 AGAYILTRFALNNPEMVEGLVFINVNPCEAGWMDWAASKISGWTQALPDMVVSHLFGKEEMQSNVEVVHT
 YRQHIIVNDMNPGLHLFINAYNSRRDLEIERPMPGTHVTQLQCPALLVVDSSPAVDVAVVECNKSLDPTK
 TLLKMAADCGGLPQISQPAKLAFAFKYFVQGMGYMPSASMTLRLMRSRTASGSSVTSLDGTRRSRSHSEGT
 RSRSHSEGTTRRSRSHSEGAHLDITPNSGAAGNSAGPKSMEVSC

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006096

ORF Size: 1182 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_006096.4](#)

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]

Product images:



Circular map for RG201374