

Product datasheet for **RG233782**

NDRG1 (NM_001258432) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG1 (NM_001258432) 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:	>RG233782 representing NM_001258432 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCAAAAACCTGCTACAACCCCTCTTCAACTACGAGGACATGCAGGAGATCACCCAGCACTTTG
CCGTCTGCCACGTGGACGCCCTGGCCAGCAGGACGGCGCAGCCTCCTCCCCGAGGGTACATGTACCC
CTCCATGGATCAGCTGGCTGAAATGCTTCTGGAGTCCTCAACAGTTTGGGCTGAAAAGCATTATTGGC
ATGGGAACAGGAGCAGGCGCCTACATCCTAACTCGATTTGCTCTAAACAACCTGAGATGGTGGAGGGCC
TTGTCCTATCAACGTGAACCTTGTGCGGAAGGCTGGATGGACTGGGCCGCTCCAAGATCTCAGGATG
GACCCAAGCTCTGCCGACATGGTGGTGTCCACCTTTTTGGGAAGGAAGAAATGCAGAGTAACGTGGAA
GTGGTCCACACCTACCGCCAGCACATTGTGAATGACATGAACCCCGCAACCTGCACCTGTTCAATG
CCTACAACAGCCGGCGGACCTGGAGATTGAGCGACCAATGCCGGGAACCCACACAGTCACCCTGCAGTG
CCCTGCTCTGTTGGTGGTTGGGGACAGCTCGCCTGCAGTGGATGCCGTGGTGGAGTGCAACTCAAAATTG
GACCCAACAAAGACCACTCTCCTCAAGATGGCGGACTGTGGCGGCTCCCGCAGATCTCCAGCCGGCCA
AGCTCGCTGAGGCCTTCAAGTACTTCGTGCAGGGCATGGGATACATGCCCTCGGCTAGCATGACCCGCT
GATGCGGTCCCGCACAGCCTCTGGTCCAGCGTCACTTCTCTGGATGGCACCCGACCCGCTCCACACC
AGCGAGGGCACCCGAAGCCGCTCCACACCAGCGAGGGCACCCGACCCGCTCGCACACCAGCGAGGGGG
CCCACTGGACATCACCCCAACTCGGGTGTCTGCTGGAAACAGCGCCGGGCCAAGTCCATGGAGGTCTC
CTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233782 representing NM_001258432
 Red=Cloning site Green=Tags(s)

MNHKTCYNPLFNYEDMQEITQHFVCHVDAPGQQDGAASFPAGYMYPMSMDQLAEMLPGLVQQFGLKSIIG
 MGTGAGAYILTRFALNNPEMVEGLVLIINVNPCAEGWMDWAASKISGWTQALPDMVVSHLFGKEEMQSNVE
 VVHTYRQHI VNDMNPGLHLFIINAYNSRRDLEIERPMPGTHVTLQCPALLVVGDS SPAVD AVECN SKL
 DPTKTTLLKMADCGGLPQISQPAKLAEAFKYFVQGMGYMPSASMTRLMRSRTASGSSVTSLDGTRSRSH
 SEGTRSRSH SEGTRSRSH SEGAHLDI TPNSGAAGNSAGPKSMEVSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258432

ORF Size: 984 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_001258432.2](#)

RefSeq Size: 3006 bp

RefSeq ORF: 987 bp

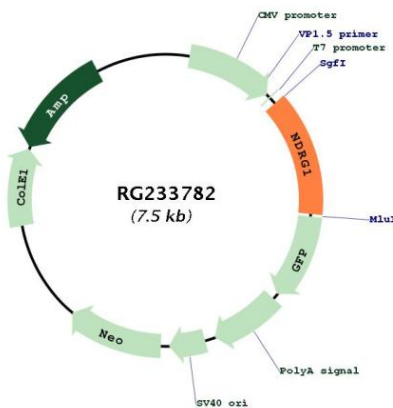
Locus ID: 10397

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]

Product images:



Circular map for RG233782