

Product datasheet for **RG225609**

NDRG1 (NM_001135242) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG1 (NM_001135242) 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:	>RG225609 representing NM_001135242 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCGGGAGATGCAGGATGTAGACCTCGCTGAGGTGAAGCCTTTGGTGGAGAAAGGGGAGACCATCA
CCGGCCTCCTGCAAGAGTTTGTGTCCAGGAGCAGGACATCGAGACTTTACATGGCTCTGTTACGTCAC
GCTGTGTGGGACTCCCAAGGAAACCGGCTGTCATCCTCACCTACCATGACATCGGCATGAACCACAAA
ACCTGCTACAACCCCTCTTCAACTACGAGGACATGCAGGAGATCACCCAGCACTTTGCCGTCTGCCACG
TGGACGCCCTGGCCAGCAGGACGGCGCAGCCTCCTTCCCGCAGGGTACATGTACCCCTCCATGGATCA
GCTGGCTGAAATGCTTCCTGGAGTCCTTCAACAGTTTGGGCTGAAAAGCATTATTGGCATGGGAACAGGA
GCAGGGCGCTACATCCTAACTCGATTTGCTCTAAACAACCCCTGAGATGGTGGAGGGCCTTGCTCTTATCA
ACGTGAACCCCTTGTCGGAAGGCTGGATGGACTGGGCCGCTCCAAGATCTCAGGATGGACCCAAGCTCT
GCCGGACATGGTGGTGTCCACCTTTTTGGGAAGGAAGAAATGCAGAGTAACGTGGAAGTGGTCCACACC
TACCGCCAGCACATTGTGAATGACATGAACCCGGCAACCTGCACCTGTTCAATGCCTACAACAGCC
GGCGGACCTGGAGATTGAGCGACCAATGCCGGAAACCCACACAGTCACCCCTGCAGTGCCTGCTCTGTT
GGTGGTTGGGGACAGCTCGCTGCAGTGGATGCCGTGGTGGAGTGCAACTCAAAATTGGACCAACAAG
ACCACTCCTCAAGATGGCGGACTGTGGCGCCTCCCGCAGATCTCCAGCCGCAAGCTCGCTGAGG
CCTTCAAGTACTTCGTGCAGGGCATGGGATACATGCCCTCGGCTAGCATGACCCGCTGATGCGGTCCCG
CACAGCCTCTGGTTCCAGCGTCACTTCTCTGGATGGCACCCGAGCCGCTCCACACCAGCGAGGGCACC
CGAAGCCGCTCCACACCAGCGAGGGCACCCGAGCCGCTCGCACACCAGCGAGGGGGCCACCTGGACA
TCACCCCAACTCGGGTCTGCTGGGAACAGCGCCGGGCCAAGTCCATGGAGGTCTCTGC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225609 representing NM_001135242
 Red=Cloning site Green=Tags(s)

MSREMQDVDLAEVKPLVEKGETITGLLQEFDVQEQDIETLHGSVHVTLCGTPKGNRPVILTYHDIGMNHK
 TCYNPLFNYEDMQEITQHFVAVCHVDAPGQQDGAASFAGYMYPSMDQLAEMLPGLVQQFGLKSIIGMTG
 AGAYILTRFALNNPEMVEGLVFINVNPCEGWDWAASKISGWTQALPDMVVSHLFGKEEMQSNVEVVHT
 YRQHIVNDMNPGLHLFINAYNSRRDLEIERPMPGTHVTLPQALLVVDSSPAVDVAVVECNKSLDPTK
 TLLKMA DCGGLPQISQPAKLAFAFKYFVQGMGYMPSASMTLRLMRSRTASGSSVTSLDGTRRSRSHSEGT
 RSRSHSEGTRRSRSHSEGAHLDITPNSGAAGNSAGPKSMEVSC

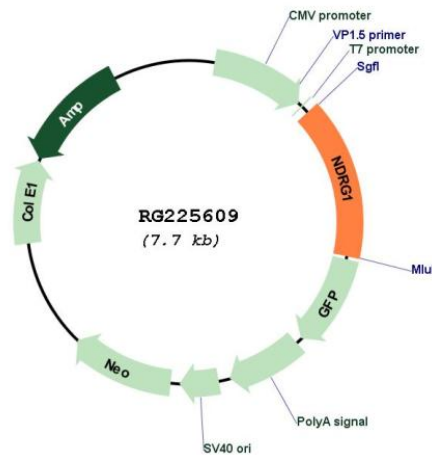
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001135242

ORF Size:	1182 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001135242.2
RefSeq Size:	3520 bp
RefSeq ORF:	1185 bp
Locus ID:	10397
UniProt ID:	Q92597
Cytogenetics:	8q24.22
Gene Summary:	<p>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]</p>