

Product datasheet for **RG221058**

NDRG4 (NM_020465) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG4 (NM_020465) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDRG4
Synonyms:	BDM1; SMAP-8; SMAP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221058 representing NM_020465 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGGCTGCAGGAGCTGCGATTCCCTGAGGAGAAGCCGCTGCTCCGGGGCCAGGACGCCACCGAGC
TGGAGAGCTCCGATGCCTTCCTCTTGGCTGCAGACACAGACTGGAAGGAACATGACATCGAGACACCCTA
CGGCCTTCTGCATGTAGTGATCCGGGGCTCCCCAAGGGGAACCGCCAGCCATCCTCACCTACCATGAT
GTGGGCCCTCAACCACAACTATGCTTCAACACCTTCTTCAACTTCGAGGACATGCAGGAGATCACCAGC
ACTTTGTGGTGTGTACGTGGATGCCCCGGACAACAGGTGGGGCGTCGCAGTTTCTCAGGGGTACCA
GTTCCCTCCATGGAGCAGCTGGCTGCCATGCTCCCAGCGTGGTGCAGATTTCCGGTTCAAGTATGTG
ATTGGCATCGGAGTGGGCGCCGGAGCCTATGTGCTGGCCAAGTTTGCACATCTTCCCCGACCTGGTGG
AGGGGCTGGTGTGGTGAACATCGACCCCAATGGCAAAGGCTGGATAGACTGGGCTGCCACCAAGCTCTC
CGGCCTAACTAGCACTTTACCCGACACGGTGTCTCCACCTCTTCAGCCAGGAGGAGCTGGTGAACAAC
ACAGAGTTGGTGCAGAGCTACCGGCAGCAGATTGGGAACGTGGTGAACAGGCAACCTGCAGCTCTTCT
GGAACATGTACAACAGCCGAGAGACCTGGACATTAACCGGCTGGAACGGTGCCAATGCCAAGACGCT
CCGCTGCCCGTGATGCTGGTGGTTGGGATAATGCACCCGCTGAGGACGGGGTGGTGGAGTGAACCTCC
AACTGGACCCGACCACTACGACCTTCTGAAGATGGCAGACTCTGGAGGCTGCCCCAGGTACACAGC
CAGGGAAAGCTGACTGAAGCCTTCAAATACTTCTGCAAGGCATGGGCTACATGCCCTCAGCCAGCATGAC
CCGCTGGCAGCTCCCGCACTGCATCCCTCACCAGTGCCAGCTCGGTGGATGGCAGCCGCCACAGGCC
TGCACCCACTCAGAGAGCAGCGAGGGGCTGGGCCAGGTCAACCACACCATGGAGGTGTCCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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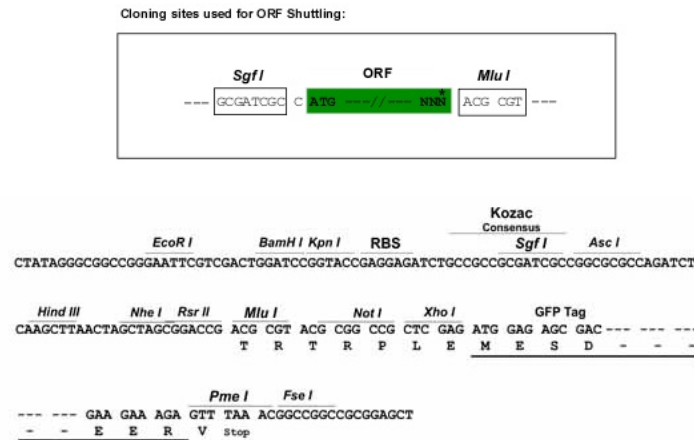
Protein Sequence: >RG221058 representing NM_020465
 Red=Cloning site Green=Tags(s)

MAGLQELRFPEEKPLLRGQDATELESSDAFLLAADTDWKEHDIETPYGLLHVIRGSPKGNRPAILTYHD
 VGLNHLKCFNTFFNFEDMQEITKHFVVCHVDAPGQVVGASQFPQGYQFPSMEQLAAMLPSVVQHFQFKYV
 IGIVGAGAYVLAKFALIFPDLVEGLVLVNIDPNGKGWIDWAATKLSGLTSTLPDVTLSHLFSQEELVNN
 TELVQSYRQQIGNVVNQANLQLFWMYNSRRDLINRPGTVPNAKTLRCPVMLVVDNAPAEDGVVECNS
 KLDPTTTTFLKMADSGGLPQVTQPGKLEAFKYFLQGMGYMPSASMTRLARSRTASLTSASSVDGSRPQA
 CTHSESEGLGQVNHTMEVSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020465

ORF Size: 1113 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_020465.4](#)

RefSeq Size: 3288 bp

RefSeq ORF: 1116 bp

Locus ID: 65009

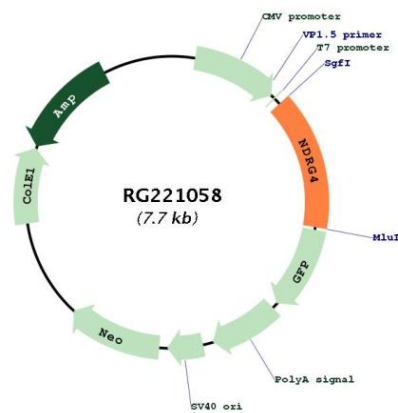
UniProt ID: [Q9ULP0](#)

Cytogenetics: 16q21

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 that is required for cell cycle progression and survival in primary astrocytes and may be involved in the regulation of mitogenic signalling in vascular smooth muscles cells. Alternative splicing results in multiple transcripts encoding different isoforms.[provided by RefSeq, Jun 2011]

Product images:



Circular map for RG221058