

Product datasheet for **RG233895**

NDRG4 (NM_001242833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG4 (NM_001242833) 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:	>RG233895 representing NM_001242833 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGAGTGTGGGATGGGGTGGGGGAAGGCAACGCTGGAGCCGTGAAGCTGGCAGGGCTAGGGGACC
CCAGGTGGAGCCAGGGCACCTCCTCTCGCCGGGGCATCAGGAACATGACATCGAGACACCCTACGGCCT
TCTGCATGTAGTGATCCGGGGCTCCCCAAGGGGAACCGCCAGCCATCCTCACCTACCATGATGTGGGC
CTCAACCACAACTATGCTTCAACACCTTCTTCAACTTCGAGGACATGCAGGAGATCACCAAGCACTTTG
TGGTGTGTACGTGGATGCCCTGGACAACAGGTGGGGCGTCGCAGTTTCTCAGGGTACCAGTTCCC
CTCCATGGAGCAGCTGGCTGCCATGCTCCCCAGGTGGTGCAGCATTTCGGGTTCAAGTATGTGATTGGC
ATCGGAGTGGGCGCCGGAGCCTATGTGCTGGCCAAGTTTGCACCTCATCTTCCCCGACCTGGTGGAGGGGC
TGGTGTGGTGAACATCGACCCCAATGGCAAAGGCTGGATAGACTGGGCTGCCACCAAGCTCTCCGGCCT
AACTAGCACTTTACCCGACACGGTGTCTCCCACCTCTTCAGCCAGGAGGAGCTGGTGAACAACACAGAG
TTGGTGCAGAGCTACCGGCAGCAGATTGGGAACGTGGTGAACAGGCCAACCTGCAGCTCTTCTGGAACA
TGTAACAACAGCCGAGAGACCTGGACATTAACCGGCTGGAACGGTGGCCCAATGCCAAGACGCTCCGCTG
CCCCGTGATGCTGGTGGTGGGGATAATGCACCGCTGAGGACGGGGTGGTGGAGTGCAACTCCTCAAACTG
GACCCGACCACTACGACCTTCTGAAGATGGCAGACTCTGGAGGGCTGCCCAAGTCCACAGCCAGGGG
AGCTGACTGAAGCCTTCAAATACTTCTGCAAGGCATGGGCTACATGCCCTCAGCCAGCATGACCCGCTT
GGCAGCTCCCGCACTGCATCCCTCACCAGTGCCAGCTCGGTGGATGGCAGCCGCCACAGGCTGCACC
CACTCAGAGAGCAGCGAGGGGCTGGGCCAGGTCAACCACACCATGGAGGTGTCCTGT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233895 representing NM_001242833
 Red=Cloning site Green=Tags(s)

MPECWDGVGEGNAGAVKLAGLGDPRWSPGHLLSPGHQEHDIEPTYGLLHVVIIRGSPKGNRPAILTYHDVG
 LNHKLCFNTFFNFEDMQEITKHFVVCHVDAPGQQVGSQFPQGYQFPSMEQLAAMPLPSVVQHFQFKYVIG
 IGVGAGAYVLAKFALIFPDLVEGLVLVNIDPNGKWIDWAATKLSGLTSTLPDVLSHLFSQEELVNTE
 LVQSYRQQIGNVVNQANLQLFWNMYSRRDLDIRPGTVPNAKTLRCPVMLVVGDNAPAEDGVVECNSKL
 DPTTTTFLKMADSGGLPQVTQPGKLTEAFKYFLQGMGYMPSASMTRLARSRTASLTSASSVDGSRPQACT
 HSESEGLGQVNHTMEVSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001242833

ORF Size: 1107 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_001242833.1](#), [NP_001229762.1](#)

RefSeq Size: 3280 bp

RefSeq ORF: 1110 bp

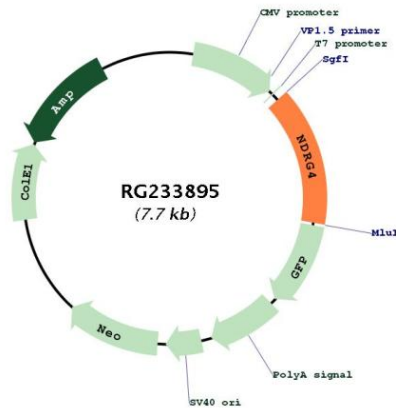
Locus ID: 65009

UniProt ID: [Q9ULP0](#)

Cytogenetics: 16q21

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 RG233895