

Product datasheet for RC221058

NDRG4 (NM_020465) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG4 (NM_020465) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDRG4
Synonyms:	BDM1; SMAP-8; SMAP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221058 representing NM_020465 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGGCTGCAGGAGCTGCGATTCCCTGAGGAGAAGCCGCTGCTCCGGGGCCAGGACGCCACCGAGC
TGGAGAGCTCCGATGCCTTCCTCTTGGCTGCAGACACAGACTGGAAGGAACATGACATCGAGACACCCTA
CGGCCTTCTGCATGTAGTGATCCGGGGCTCCCCAAGGGGAACCGCCAGCCATCCTCACCTACCATGAT
GTGGGCCCTCAACCACAACTATGCTTCAACACCTTCTTCAACTTCGAGGACATGCAGGAGATCACCAGC
ACTTTGTGGTGTGTACGTGGATGCCCCGGACAACAGGTGGGGCGTCGCAGTTTCTCAGGGGTACCA
GTTCCCTCCATGGAGCAGCTGGCTGCCATGCTCCCAGCGTGGTGCAGCATTCGGGTTCAAGTATGTG
ATTGGCATCGGAGTGGGCGCCGGAGCCTATGTGCTGGCCAAGTTTGCACATCTTCCCCGACCTGGTGG
AGGGGCTGGTGTGGTGAACATCGACCCCAATGGCAAAGGCTGGATAGACTGGGCTGCCACCAAGCTCTC
CGGCCTAACTAGCACTTTACCCGACACGGTGTCTCCACCTCTTCAGCCAGGAGGAGCTGGTGAACAAC
ACAGAGTTGGTGCAGAGCTACCGGCAGCAGATTGGGAACGTGGTGAACAGGCCAACCTGCAGCTTCT
GGAACATGTACAACAGCCGAGAGACCTGGACATTAACCGGCTGGAACGGTGCCAATGCCAAGACGCT
CCGCTGCCCGTGATGCTGGTGGTTGGGATAATGCACCCGCTGAGGACGGGGTGGTGGAGTCAACTCC
AACTGGACCCGACCACTACGACCTTCTGAAGATGGCAGACTCTGGAGGCTGCCAGGTGCACACAGC
CAGGGAAGCTGACTGAAGCCTTCAAATACTTCTGCAAGGCATGGGCTACATGCCCTCAGCCAGCATGAC
CCGCTGGCAGCTCCCGCACTGCATCCCTCACCAGTGCCAGCTCGGTGGATGGCAGCCGCCACAGGCC
TGCACCCACTCGGAGAGCAGCGAGGGGCTGGGCCAGGTCAACCACACCATGGAGGTGTCCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC221058 representing NM_020465
Red=Cloning site Green=Tags(s)

MAGLQELRFPEEKPLLRGQDATELESSDAFLLAADTDWKEHDIETPYGLLHVIVIRGSPKGNRPAILTYHD
 VGLNHKLCFNFTFFNFEDMQEITKHFVVCHVDAPGQQV GASQFPQGYQFPSMEQLAAMPLSVVQHFGFKYV
 IGIVGAGAYVLAKFALIFPDLVEGLVLVNIDPNGKGWIDWAATKLSGLTSTLPDPTVLSHLFSQEELVNN
 TELVQSYRQQIGNVVNQANLQLFWMYNSRRDLINRPGTVPNAKTLRCPVMLVVDNAPAEDGVVECNS
 KLDPTTTTFLKMADSGGLPQVTQPGKLEAFKYFLQGMGYMPSASMTRLARSRTASLTSASSVDGSRPQA
 CTHSESEGLGQVNHTMEVSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKVK

Chromatograms: https://cdn.origene.com/chromatograms/mk6111_f06.zip

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020465.4](#)

RefSeq Size: 3288 bp

RefSeq ORF: 1116 bp

Locus ID: 65009

UniProt ID: [Q9ULP0](#)

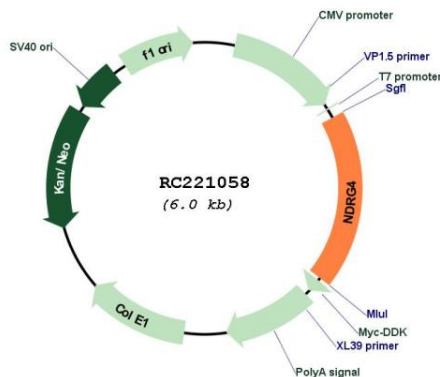
Cytogenetics: 16q21

Domains: Ndr

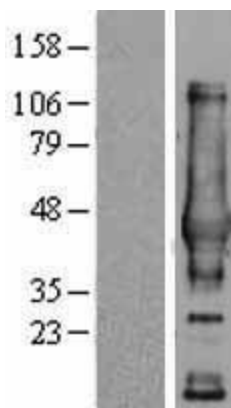
MW: 40.5 kDa

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]

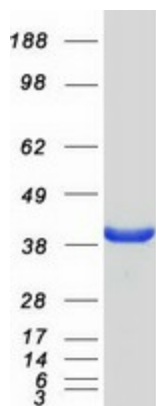
Product images:



Circular map for RC221058



Western blot validation of overexpression lysate (Cat# [LY411459]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC221301] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NDRG4 protein (Cat# [TP321058]). The protein was produced from HEK293T cells transfected with NDRG4 cDNA clone (Cat# RC221058) using MegaTran 2.0 (Cat# [TT210002]).