

Product datasheet for RC217761

NDRG3 (NM_022477) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG3 (NM_022477) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDRG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217761 representing NM_022477 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGAACTTCAGGATGTTTCAGCTCACAGAGATCAAACCACTTCTAAATGATAAGGAACATGATATAG
AAACAACATCATGGTGTGGTCCACGTCACATAAAGAGGCTTACCCAAGGAAACAGACCAGTTATACTAAC
ATATCATGACATTGGCCCAACCATAAATCCTGTTTCAATGCATTCTTTAACTTTGAGGATATGCAAGAG
ATCACCCAGCACTTTGCTGTCTGTCATGTGGATGCCCCAGGCCAGCAGGAAGGTGCACCCCTTTCCCAA
CAGGGTATCAGTACCCACAATGGATGAGCTGGCTGAAATGCTGCCTCCTGTTCTTACCCACCTAAGCCT
GAAAAGCATCATTGGAATTGGAGTTGGAGCTGGAGCTTACATCCTCAGCAGATTTGCACTCAACCATCCA
GAGCTTGTGGAAGGCCTTGTGCTCATTAAATGTTGACCCTTGCCTAAAGGCTGGATTGACTGGGCAGCTT
CCAAACTCTGGCCTGACAACCAATGTTGTGGACATTATTTGGCTCATCACTTTGGGCAGGAAGAGTT
ACAGGCCAACCTGGACCTGATCCAAACCTACAGAATGCATATTGCCAAGACATCAACCAAGACAACCTG
CAGCTCTTCTGAATTCCTACAATGGACGACAGACCTGGAGATCGAAAGACCCATACTGGGCCAAAATG
ATAACAAATCAAAAACATTAAGTGTCTACTTTACTGGTGGTAGGGACAATTCGCCTGCAGTTGAGGC
TGTGGTGAATGCAATTCGGCCTGAACCTATAAATACTTTGCTAAAGATGGCGGACTGTGGGGGA
CTGCCAGGTAGTTCAGCCTGGGAAGCTACCGAGGCCTCAAGTACTTTTGCAGGGAATGGGCTACA
TACCATCTGCCAGCATGACTCGGCTCGCCGATCACGAACCCACTCAACCTCGAGTAGCCTCGGCTCTGG
AGAAAGTCCCTTCAGCCGGTCTGTACCAGCAATCAGTCAGATGGAACCTCAAGAATCCTGTGAGTCCCT
GATGTCCTGGACAGACACCAGACCATGGAGGTGTCCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217761 representing NM_022477
Red=Cloning site Green=Tags(s)

MDELQDVQLTEIKPLLN⁺DKEHDIETTHGVVHV⁺TI⁺RGLPKGNRPVILTYHDI⁺GLN⁺HKSCFN⁺AFNFEDMQE
 ITQHFV⁺CHVDAPGQ⁺QEGAPSFPTGYQYPTMDELAEM⁺LPPVLTHLSL⁺KSIIGIGV⁺GAGAYILSRFALNHP
 ELVEGLVLINVDPCA⁺KGWIDWAASKLSGLTTNVVDIILAH⁺HFQ⁺EELQANLDLIQTYRMHIAQDINQDNL
 QLFLNSYNGRRDLEIERPILGQNDN⁺SKTLK⁺STLLV⁺VDNSPAVEAVVECN⁺SRLNPINTLLKMADCGG
 LPQVVQPGKLTEAFKYFLQGMGYIP⁺SASMTRLARS⁺THSTSSSLGSGESPFSRSVTSNQSDGTQESCE⁺SP
 DVLDRHQ⁺TMEVSC

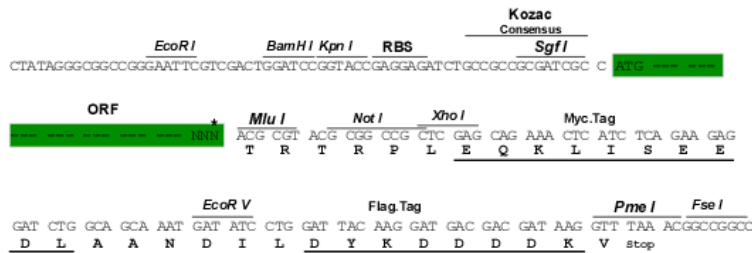
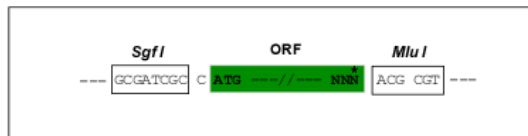
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8054_h08.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_022477

ORF Size: 1089 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_022477.4](#)

RefSeq Size: 2928 bp

RefSeq ORF: 1092 bp

Locus ID: 57446

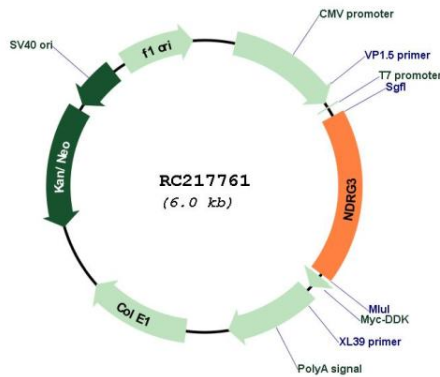
UniProt ID: [Q9UGV2](#)

Cytogenetics: 20q11.23

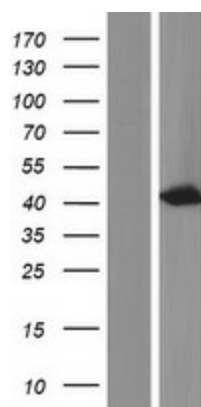
Domains: Ndr

MW: 39.8 kDa

Product images:



Circular map for RC217761



Western blot validation of overexpression lysate (Cat# [LY411655]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217761 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).