

Product datasheet for RC211577

NDRG2 (NM_016250) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG2 (NM_016250) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDRG2
Synonyms:	SYLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211577 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACTGTTGCCAGGACAGACGCCTGAGGCGG
CCAAGACTCACTCTGTGGAGACACCATACGGCTCTGTCACTTTCACTGTCTATGGCACCCCCAAACCCAA
ACGCCAGCGATCCTTACCTACCACGATGTGGACTCACTATAAATCTTGCTTCCAGCCACTGTTTCAG
TTCGAGGACATGCAGGAAATCATTGAGAACTTTGTGCGGGTTCATGTGGATGCCCTGGAATGGAAGAGG
GAGCCCTGTGTCCCTTTGGGATATCAGTACCCATCTCTGGACGAGCTTGCAGACATGATCCCTTGCCT
CCTGCAGTACCTAAATTTCTCTACAATAATTGGAGTTGGTGTGGAGCTGGAGCCTACATCCTGGCGAGA
TATGCTCTTAACCCCGGACACTGTTGAAGTCTTGTCCCTCATCAACATTGATCCCAATGCCAAGGGTT
GGATGGATTGGGACGCCACAAGCTAACAGGCCTCACCTTCCATTCCGGAGATGATCCTTGGACATCT
TTTCAGCCAGGAAGAGCTCTCTGGAAATCTGAGTTGATACAAAAGTACAGAAATATCATTACACATGCA
CCCAACCTGGATAACATTGAATTGACTGGAACAGCTACAACAACCGCCGAGACCTGAACTTTGAGCGTG
GAGGTGATATCACCTCAGGTGTCTGTGATGCTGGTGGTAGGAGACCAAGCACCTCATGAAGATGCAGT
GGTGAATGTAACCTCAAACCTGGACCCACCGGACCTCGTTCCTCAAGATGGCTGACTCCGGAGGTCAG
CCCCAGCTGACTCAGCCAGGCAAGCTGACCGAGGCCTTCAAGTACTTCTGCAAGGCATGGGCTACATGG
CCTCATCCTGCATGACTCGCCTGTCCAGGTCTCGTACAGCCTCTCTGACCAGTGCAGCATCCGTTGATGG
CAACAGGTCCCGCTCTCGCACCTGTCCAGAGCAGCGAGTCTGGAACCTTTCTTCGGGGCCCCGGGG
CACACCATGGAGGTCTCCTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC211577 protein sequence
Red=Cloning site Green=Tags(s)

MAELQEVQITEEKPLLPGQTPEAAKTHSVETPYGSVTFTVYGTPKPKRPAILTYHDVGLNYKSCFQPLFQ
 FEDMQEIIQNFVRVHVDAPGMEEGAPVFPLGYQYPSLDELADMIPCVLQYLNFSITIGVGVGAGAYILAR
 YALNHPDTVEGLVLINIDPNAKGWMDWAAHKL TGLTSSIPEMILGHLFSQEELSGNSELIQKYRNIITHA
 PNLDNIELYWNSYNNRRDLNFERGGDITLRCPVMLVVGDDQAPHEDAVVECKSLDPTRTSFLKMADSGGQ
 PQLTQPGKLTEAFKYFLQGMGYMASSCMTRLRSRTASL TSAASVDGNRSRRTL SQSSESGTLSSGPPG
 HTMEVSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6380_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_016250

ORF Size: 1071 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_016250.3](#)

RefSeq Size: 2100 bp

RefSeq ORF: 1074 bp

Locus ID: 57447

UniProt ID: [Q9UN36](#)

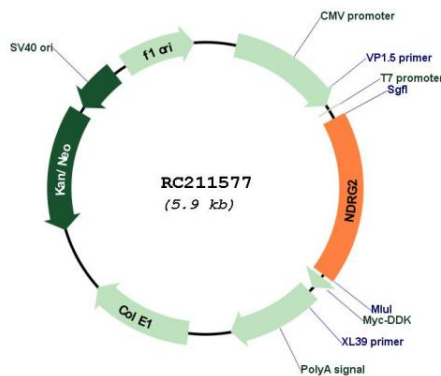
Cytogenetics: 14q11.2

Domains: Ndr

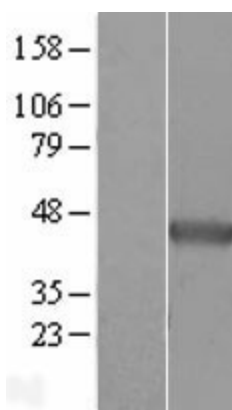
MW: 39.3 kDa

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 may play a role in neurite outgrowth. This gene may be involved in glioblastoma carcinogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2017]

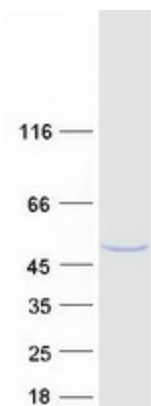
Product images:



Circular map for RC211577



Western blot validation of overexpression lysate (Cat# [LY414093]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211577 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NDRG2 protein (Cat# [TP311577]). The protein was produced from HEK293T cells transfected with NDRG2 cDNA clone (Cat# RC211577) using MegaTran 2.0 (Cat# [TT210002]).