

Product datasheet for **RC237370**

NDRG2 (NM_001282216) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDRG2 (NM_001282216) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NDRG2
Synonyms: SYLD
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237370 representing NM_001282216
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACCCCAAACCCAAACGCCAGCGATCCTTACCTACCACGATGTGGGACTCAACTCCACTGTTTC
AGTTCGAGGACATGCAGGAAATCATTGAGAACTTTGTGCGGGTTCATGTGGATGCCCTGGAATGGAAGA
GGGAGCCCTGTGTTCCCTTTGGGATATCAGTACCCATCTCTGGACCAGCTTGACAGACATGATCCCTTGC
GTCCTGCAGTACCTAAATTTCTCTACAATAATTGGAGTTGGTGTGGAGCTGGAGCCTACATCCTGGCGA
GATATGCTCTTAACCACCCGGACACTGTTGAAGTCTTGTCTCATCAACATTGATCCCAATGCCAAGGG
TTGGATGGATTGGGCAGCCACAAGCTAACAGGCCTCACCTTCCATTCCGGAGATGATCCTTGGACAT
CTTTTCAGCCAGGAAGAGCTCTCTGAAATTCTGAGTTGATACAAAAGTACAGAAATATCATTACACATG
CACCAACCTGGATAACATTGAATTGACTGGAACAGCTACAACAACCCGAGACCTGAACTTTGAGCG
TGGAGGTGATATCACCTCAGGTGTCCTGTGATGCTGGTGGTAGGAGACCAAGCACCTCATGAAGATGCA
GTGGTGAATGTAACCTAAAACCTGACCCACCCAGACCTCGTTCCTCAAGATGGCTGACTCCGGAGGTC
AGCCCCAGCTGACTCAGCCAGGCAAGCTGACCCAGGCCTTCAAGTACTTCTGCAAGGCATGGGCTACAT
GGCCTCATCCTGCATGACTCGCCTGTCCCGGTCTCGTACAGCCTCTCTGACCAGTGCAGCATCCGTTGAT
GGCAACCGGTCCCGCTCTCGCACCTGTCCAGAGCAGCGAGTCTGAACTCTTTCTTCGGGCCCCCGG
GGCACACCATGGAGGTCTCCTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237370 representing NM_001282216
Red=Cloning site Green=Tags(s)

MAPPNPNAQRSLPTTMDSTPLFQFEDMQEIIQNFVVRVHVDAPGMEEGAPVFPLGYQYPSLDQLADMIPC
 VLQYLNFSSTIIGVGVGAGAYILARYALNHPDTVEGLVLINIDPNAKGWMDWAAHKLTLGSSIPEMILGH
 LFSQEELSGNSELIQKYRNIITHAPLNDNIELYWNSYNNRRDLNFERGGDITLRCPVMLVVGDAQPHEDA
 VVECNSKLDPTQTSFLKMADSGGQPQLTQPGKLEAFKYFLQGMGYMASSCMTRLRSRRTASLTSAAASVD
 GNRSRRTLSQSSESGTSSGPPGHTMEVSC

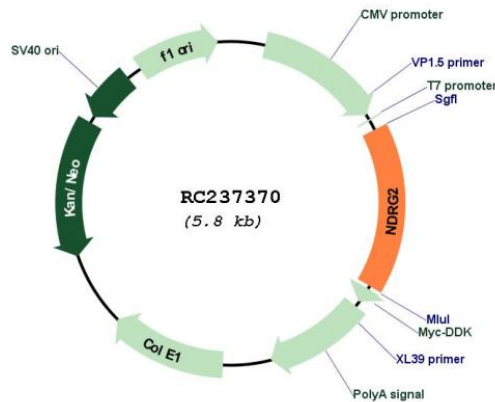
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282216

ORF Size: 933 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:	<ol style="list-style-type: none">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_001282216.1 , NP_001269145.1
RefSeq Size:	1993 bp
RefSeq ORF:	936 bp
Locus ID:	57447
UniProt ID:	Q9UN36
Cytogenetics:	14q11.2
MW:	34.6 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]