

Product datasheet for **RG203712**

NDRG2 (NM_201538) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG2 (NM_201538) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDRG2
Synonyms:	SYLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203712 representing NM_201538 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACTGTTGCCAGGACAGACGCCTGAGGCGG
CCAAGACTCACTCTGTGGAGACACCATACGTCTCTGTCACTTTCACTGTCTATGGCACCCCCAAACCCAA
ACGCCAGCGATCCTTACCTACCACGATGTGGACTCACTATAAATCTTGCTTCCAGCCACTGTTTCAG
TTCGAGGACATGCAGGAAATCATTGAGAACTTTGTGCGGGTTCATGTGGATGCCCTGGAATGGAAGAGG
GAGCCCCTGTGTCCCTTTGGGATATCAGTACCCATCTCTGGACCAGCTTGCAGACATGATCCCTTGCCT
CCTGCAGTACCTAAATTTCTCTACAATAATTGGAGTTGGTGTGGAGCTGGAGCCTACATCCTGGCGAGA
TATGCTCTTAACCCCGGACACTGTTGAAGGTCTTGTCCTCATCAACATTGATCCCAATGCCAAGGGTT
GGATGGATTGGGCAGCCACAAGCTAACAGGCCTCACCTTCCATTCCGGAGATGATCCTTGGACATCT
TTTCAGCCAGGAAGAGCTCTCTGGAAATCTGAGTTGATACAAAAGTACAGAAATATCATTACACATGCA
CCCAACCTGGATAACATTGAATTGACTGGAACAGCTACAACAACCGCCGAGACCTGAACCTTGGAGCGT
GAGGTGATATCACCTCAGGTGCTCTGTGATGCTGGTGGTAGGAGACCAAGCACCTCATGAAGATGCAGT
GGTGAATGTAACCTCAAACCTGGACCCACCCAGACCTCGTTCCTCAAGATGGCTGACTCCGGAGGTCAG
CCCCAGCTGACTCAGCCAGGCAAGCTGACCGAGGCCTTCAAGTACTTCTGCAAGGCATGGGCTACATGG
CCTCATCCTGCATGACTCGCCTGTCCCGTCTCGTACAGCCTCTCTGACCAGTGCAGCATCCGTTGATGG
CAACCGTCCCGCTCTCGCACCTGTCCAGAGCAGCGAGTCTGGAACCTTTCTTCGGGGCCCCGGGG
CACACCATGGAGGTCTCCTGT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203712 representing NM_201538
 Red=Cloning site Green=Tags(s)

MAELQEVQITEEKPLLPGQTPEAAKTHSVETPYVSVTFTVYGTGPKPKRPAILTYHDVGLNYKSCFQPLFQ
 FEDMQEIIQNFRVHVVDAPGMEEGAPVFLGYQYPSLDQLADMIPCVLQYLNFSITIGVGVGAGAYILAR
 YALNHPDTVEGLVLINIDPNAKGWMDWAAHKL TGLTSSIPEMILGHLFSQEELSGNSELIQKYRNIITHA
 PNLNDNIELYWNSYNNRRDLNFERGGDITLRCPVMLVVGDDQAPHEDAVVECNKSLDPTQTSFLKMADSGGQ
 PQLTQPGKLTEAFKYFLQGMGYMASSCMTRLRSRTASL TSAASVDGNRSRRTL SQSSESGTSSGPPG
 HTMEVSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201538

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_201538.1](#), [NP_963832.1](#)

RefSeq Size: 2010 bp

RefSeq ORF: 1074 bp

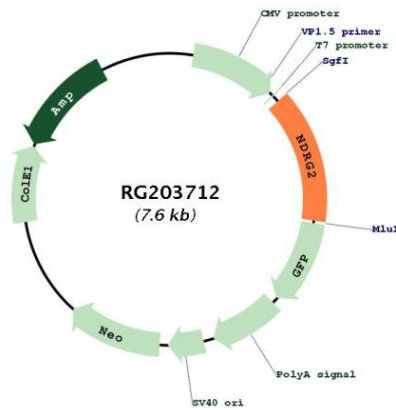
Locus ID: 57447

UniProt ID: [Q9UN36](#)

Cytogenetics: 14q11.2

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 RG203712