

Product datasheet for **RG237580**

NDRG2 (NM_001282212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG2 (NM_001282212) 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:	>RG237580 representing NM_001282212. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACTGTTGCCAGGACAGACGCCTGAGGCG
GCCAAGACTCACTCTGTGGAGACACCACACGGCTCTGTCACTTTCACTGTCTATGGCACCCCAAACCC
AAACGCCAGCGATCCTTACCTACCACGATGTGGGACTCAACTATAAATCTTGCTTCCAGCCACTGTTT
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GCGAGATATGCTCTTAACCACCCGGACTGTTGAAGGCTTGTCTCATCAACATTGATCCAATGCC
AAGGGTTGGATGGATTGGGCAGCCACAAGCTAACAGGCCTCACCTCTCCATTCCGGAGATGATCCTT
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GAAGATGCAGTGTGGCTGACTCCGGAGGTCAGCCCCAGCTGACTCAGCCAGGCAAGCTGACCGAGGCC
TTCAAGTACTTCTGCAAGGCATGGCTACATGGCCTCATCTGCATGACTCGCCTGTCCGGTCTCGT
ACAGCCTCTGACCAGTGCAGCATCCGTTGATGGCAACCGGTCGCCCTCTGCACCCCTGTCCCAGAGC
AGCGAGTCTGAACTCTTTCTTCGGGGCCCGGGGCACACCATGGAGGTCTCCTGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237580
 Blue=ORF Red=Cloning site Green=Tag(s)

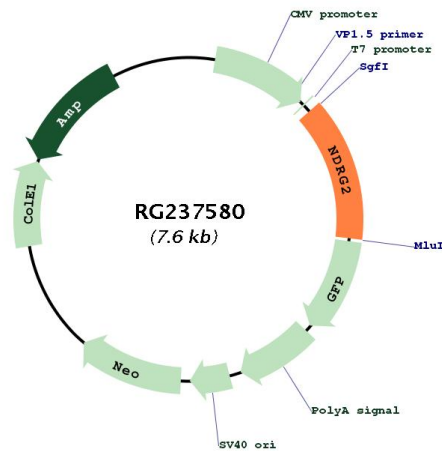
MAELQEVQITEEKPLLPQGTPEAAKTHSVETPYGSVTFVYGTPKPKRPAILTYHDVGLNYKSCFQPLF
 QFEDMQEIIQNFVRVHVDAPGMEEGAPVFPLGYQYPSLDQLADMIPCVLQYLNFSSTIIGVGVGAGAYIL
 ARYALNHPDTEGLVLINIDPNAKGWMDWAAHKL TGLSSIPEMILGHLFSQEELSGNSELIQKYRNI I
 THAPNLDNIELYWNSYNNRRDLNFERGGDITLRCPVMLVVGDAQPHEDAVMADSGGQPQLTQPGKLTEA
 FKYFLQGMGYMASSCMTRLRSRTASLTSAAASVDGNRSRRTLSSQSESGTSSGPPGHTMEVSC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282212

ORF Size:	1023 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).
RefSeq:	NM_001282212.1 , NP_001269141.1
RefSeq Size:	2204 bp
RefSeq ORF:	1026 bp
Locus ID:	57447
UniProt ID:	Q9UN36
Cytogenetics:	14q11.2
MW:	37.9 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]