

## Product datasheet for **RG237689**

### **NDRG2 (NM\_001282213) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG2 (NM_001282213) 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:	>RG237689 representing NM_001282213. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACTGTTGCCAGGACAGACGCCCTGAGGCG
GCCAAGACTCACTCTGTGGAGACACCATACGTCTCTGTCACTTTCACTGTCTATGGCACCCCAAACCC
AAACGCCAGCGATCCTTACCTACCACGATGTGGGACTCAACTATAAATCTTGCTTCCAGCCACTGTTT
CAGTTCGAGGACATGCAGGAAATCATTAGAATTTGTGCGGGTTCATGTGGATGCCCTGGAATGGAA
GAGGGAGCCCTGTGTTCCCTTTGGGATATCAGTACCCATCTCTGGACCAGCTTGCAGACATGATCCCT
TGCGTCTGCAGTACCTAAATTTCTCTACAATAATTGGAGTTGGTGTGGAGCTGGAGCCTACATCCTG
GCGAGATATGCTCTTAACCACCCGGACTGTTGAAGGCTTGTCTCATCAACATTGATCCAATGCC
AAGGGTTGGATGGATTGGGAGCCACAAGCTAACAGGCCTCACCTTCCATTCCGGAGATGATCCTT
GGACATCTTTTACGCCAGGAAGACTCTCTGAAATTTCTGAGTTGATACAAAAGTACAGAAATATCATT
ACACATGCACCCAACCTGGATAACATTGAATTGTACTGGAACAGCTACAACAACCCGAGACCTGAAC
TTTGAGCGTGGAGGTGATATCACCTCAGGTGTCTGTGATGCTGGTGGTAGGAGACCAAGCACCTCAT
GAAGATGCAGTGGTGAATGTAACCTAAAACCTGGACCCCAACCCAGACCTCGTTCCCTCAAGATGGCTGAC
TCCGGAGGTGAGCCAGCTGACTCAGCCAGGCAAGCTGACCGAGGCCTCAAGTACTTCTGCAAGGC
ATGGGCTACATGGCCTCATCTGCATGACTCGCCTGTCCCGTCTCGTACAGCCTCTGACCAAGTGA
GCATCCGTTGATGGCAACCGGTCCCGCTCTCGCACCCCTGTCCAGAGCAGCGAGTCTGGAATCTTTCT
TCGGGGCCCCCGGGGCACACCATGGAGGTCTCCTGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237689  
 Blue=ORF Red=Cloning site Green=Tag(s)

MAELQEVQITEEKPLLPQGTPEAAKTHSVETPYVSVTFTVYGTPKPKRPAILTYHDVGLNYKSCFQPLF  
 QFEDMQEIIQNFVRVHVDAPGMEEGAPVFPLGYQYPSLDQLADMIPCVLQYLNFSSTIIGVGVGAGAYIL  
 ARYALNHPDTEGLVLINIDPNAKGWMDWAAHKL TGLTSSIPEMILGHLFSQEELSGNSELIQYRNI I  
 THAPNLNIELYWNSYNNRRDLNFERGGDITLRCPVMLVVGDAQPHEDAVVECNKSLDPTQTSFLKMAD  
 SGGPQLTQPGKLTEAFKYFLQGMGYMASSCMTRLRSRRTASLTSAAVSDGNRSRRTLSQSSSEGTLS  
 SGPPGHTMEVSC  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282213

**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).

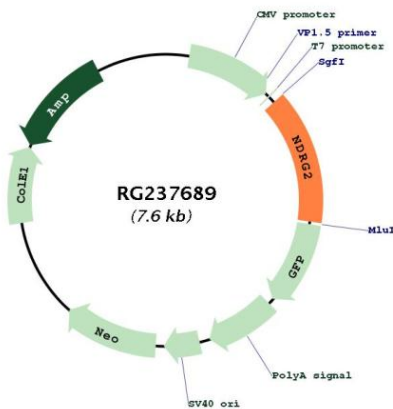
**RefSeq:** [NM\\_001282213.1](#), [NP\\_001269142.1](#)

**RefSeq Size:** 2257 bp

RefSeq ORF: 1074 bp  
 Locus ID: 57447  
 UniProt ID: [Q9UN36](#)  
 Cytogenetics: 14q11.2  
 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 RG237689