

## Product datasheet for **RG210598**

### **NDRG2 (NM\_201541) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG2 (NM_201541) 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:	>RG210598 representing NM_201541 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACTGTTGCCAGGACAGACGCCTGAGGCGG  
CCAAGACTCACTCTGTGGAGACACCATACGGCTCTGCACTTTCACTGTCTATGGCACCCCCAAACCCAA  
ACGCCAGCGATCCTTACCTACCACGATGTGGACTCACTATAAATCTTGCTTCCAGCCACTGTTTCAG  
TTCGAGGACATGCAGGAAATCATTGAGAACTTTGTGCGGGTTCATGTGGATGCCCTGGAATGGAAGAGG  
GAGCCCTGTGTTCCCTTTGGGATATCAGTACCCATCTCTGGACGAGCTTGCAGACATGATCCCTTGCCT  
CCTGCAGTACCTAAATTTCTCTACAATAATTGGAGTTGGTGTGGAGCTGGAGCCTACATCCTGGCGAGA  
TATGCTCTTAACCCCGGACACTGTTGAAGTCTTGTCCTCATCAACATTGATCCCAATGCCAAGGGTT  
GGATGGATTGGGACGCCACAAGCTAACAGGCCTCACCTTCCATTCCGGAGATGATCCTTGGACATCT  
TTTCAGCCAGGAAGAGCTCTCTGGAAATCTGAGTTGATACAAAAGTACAGAAATATCATTACACATGCA  
CCCAACCTGGATAACATTGAATTGACTGGAACAGCTACAACAACCGCCGAGACCTGAACCTTGGAGCGT  
GAGGTGATATCACCTCAGGTGCTCTGTGATGCTGGTGGTAGGAGACCAAGCACCTCATGAAGATGCAGT  
GGTGAATGTAACCTCAAACCTGGACCCACCGGACCTCGTTCCTCAAGATGGCTGACTCCGGAGGTCAG  
CCCCAGCTGACTCAGCCAGGCAAGCTGACCGAGGCCTTCAAGTACTTCTGCAAGGCATGGGCTACATGG  
CCTCATCCTGCATGACTCGCCTGTCCAGGTCTCGTACAGCCTCTCTGACCAGTGCAGCATCCGTTGATGG  
CAACAGGTCCCGCTCTCGCACCTGTCCAGAGCAGCGAGTCTGGAACCTTTCTTCGGGGCCCCGGGG  
CACACCATGGAGGTCTCCTGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210598 representing NM\_201541  
 Red=Cloning site Green=Tags(s)

MAELQEVQITEEKPLLPQGTPEAAKTHSVETPYGSVTFVYGTGPKPKRPAILTYHDVGLNYKSCFQPLFQ  
 FEDMQEIIQNFRVHVHDAPGMEEGAPVFPLGYQYPSLDELADMIPCVLQYLNFSITIGVGVGAGAYILAR  
 YALNHPDTVEGLVLINIDPNAKGWMDWAAHKL TGLTSSIPEMILGHLFSQEELSGNSELIQKYRNIITHA  
 PNLDNIELYWNSYNNRRDLNFERGGDITLRCPVMLVVGDAQPHEDAVVECNSKLDPTRTSFLKMADSGGQ  
 PQLTQPGKLEAFKYFLQGMGYMASSCMTRLRSRTASL TSAASVDGNRSRRTL SQSSESGTLLSSGPPG  
 HTMEVSC

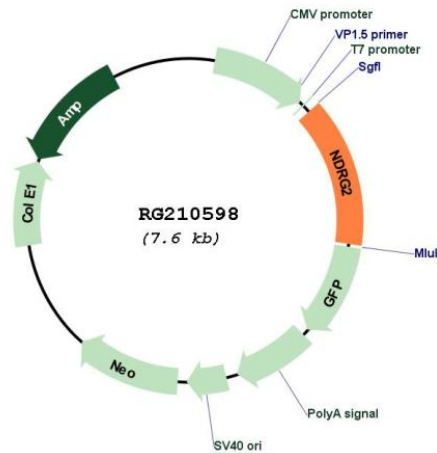
TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_201541

<b>ORF Size:</b>	1071 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_201541.1</a> , <a href="#">NP_963835.1</a>
<b>RefSeq Size:</b>	2077 bp
<b>RefSeq ORF:</b>	1074 bp
<b>Locus ID:</b>	57447
<b>UniProt ID:</b>	<a href="#">Q9UN36</a>
<b>Cytogenetics:</b>	14q11.2
<b>Gene Summary:</b>	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]