

## Product datasheet for **RG221301**

### **NDRG4 (NM\_022910) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG4 (NM_022910) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDRG4
Synonyms:	BDM1; SMAP-8; SMAP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221301 representing NM_022910 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGGGCTGCAGGAGCTGCGATTCCCTGAGGAGAAGCCGCTGCTCCGGGGCCAGGACGCCACCGAGC  
TGGAGAGCTCCGATGCCTTCTCTGGCTGCAGACACAGACTGGAAGGAACATGACATCGAGACACCCTA  
CGGCCTTCTGCATGTAGTGATCCGGGGCTCCCCAAGGGGAACCGCCAGCCATCCTCACCTACCATGAT  
GTGGGCCCAACCACAACTATGCTTCAACACCTTCTTCAACTTCGAGGACATGCAGGAGATCACCAGC  
ACTTTGTGGTGTGCACGTGGATGCCCCGGACAACAGGTGGGGCGTCGCAGTTTCTCAGGGGTACCA  
GTTCCCTCCATGGAGCAGCTGGCTGCCATGCTCCCAGCGTGGTGCAGCATTCGGGTTCAAGTATGTG  
ATTGGCATCGGAGTGGGCGCCGGAGCCTATGTGCTGGCCAAGTTTGCACATCTTCCCCGACCTGGTGG  
AGGGGCTGGTGTGGTGAACATCGACCCCAATGGCAAAGGCTGGATAGACTGGGCTGCCACCAAGCTCTC  
CGGCCTAACTAGCACTTACCCGACACGGTGTCTCCACCTCTCAGCCAGGAGGAGCTGGTGAACAAC  
ACAGAGTTGGTGCAGAGTACCGGCAGCAGATTGGGAACGTGGTGAACAGGCAACCTGCAGCTCTTCT  
GGAACATGTACAACAGCCGAGAGACCTGGACATTAACCGGCTGGAACGGTGCCAATGCCAAGACGCT  
CCGCTGCCCGTGTGCTGGTGGTTGGGATAATGCACCCGCTGAGGACGGGGTGGTGGAGTGAACCTCC  
AACTGGACCCGACCACTACGACCTTCTGAAGATGGCAGACTCTGGAGGCTGCCAGGTACACACAGC  
CAGGGAAGCTGACTGAAGCCTTCAAATACTTCTGCAAGGCATGGGCTACATGCCCTCAGCCAGCATGAC  
CCGCTGGCAGCTCCCGCACTGCATCCCTCACCAGTGCCAGCTCGGTGGATGGCAGCCGCCACAGGCC  
TGCACCCACTCAGAGAGCAGCGAGGGGCTGGGCCAGGTCAACCACACCATGGAGGTGTCCTGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221301 representing NM\_022910  
Red=Cloning site Green=Tags(s)

MAGLQELRFPEEKPLLRGQDATELESSDAFLAADTDWKEHDIETPYGLLHVIVIRGSPKGNRPAILTYHD  
 VGLNHKLCFNTEFFNFEDMQEITKHFVVCHVDAPGQQVGASQFPQGYQFPSMEQLAAMLPSVVQHFQFKYV  
 IGIVGAGAYVLAKFALIFPDLVEGLVLVNIDPNGKGWIDWAATKLSGLTSTLPDVTLSHLFSQEELVNN  
 TELVQSYRQQIGNVVNQANLQLFWNMYNSRRDLDIRPQGTVPNAKTLRCPVMLVVDNPAEDGVVECNS  
 KLDPTTTTFLKMADSGGLPQVTQPGKLEAFKYFLQGMGYMPSASMTRLARSRTASLTSASSVDGSRPQA  
 CTHSESEGLGQVNHTMEVSC

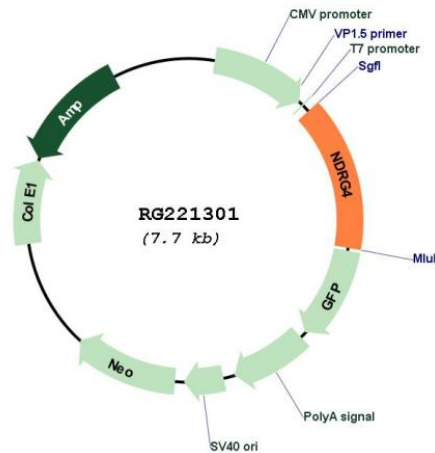
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_022910

<b>ORF Size:</b>	1113 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_022910.4</a>
<b>RefSeq Size:</b>	3173 bp
<b>RefSeq ORF:</b>	1116 bp
<b>Locus ID:</b>	65009
<b>UniProt ID:</b>	<a href="#">Q9ULP0</a>
<b>Cytogenetics:</b>	16q21
<b>Domains:</b>	Ndr
<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 is required for cell cycle progression and survival in primary astrocytes and may be involved in the regulation of mitogenic signalling in vascular smooth muscles cells. Alternative splicing results in multiple transcripts encoding different isoforms.[provided by RefSeq, Jun 2011]