

Product datasheet for **RG225600**

NDRG4 (NM_001130487) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG4 (NM_001130487) 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:	>RG225600 representing NM_001130487 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGTGCTGGGACACCGGCTGGAGCTGCTCACAGGCCTCCTGCTCCACGACGTGACCATGGCCGGC
TGCAGGAGCTGCGATTCCCTGAGGAGAAGCCGCTGCTCCGGGGCCAGGACGCCACCGAGCTGGAGAGCTC
CGATGCCTTCTTGGCTGCAGACACAGACTGGAAGGAACATGACATCGAGACACCTACGGCCTTCTG
CATGTAGTGATCCGGGGCTCCCCAAGGGGAACCGCCAGCCATCCTCACCTACCATGATGTGGCCTCA
ACCACAACTATGCTTCAACACCTTCTCAACTTCGAGGACATGCAGGAGATACCAAGCACTTTGTGGT
GTGTCACGTGGATGCCCTGGACAACAGGTGGGGCGTCCGAGTTTCTCAGGGTACCAGTTCCCTCC
ATGGAGCAGCTGGCTGCCATGCTCCCCAGCGTGGTGCAGCATTTTCGGGTTCAAGTATGTGATTGGCATCG
GAGTGGGCGCCGGAGCCTATGTGCTGGCCAAGTTTGAAGTCACTCATCTTCCCGACCTGGTGGAGGGGCTGGT
GCTGGTGAACATCGACCCCAATGGCAAAGGCTGGATAGACTGGGCTGCCACCAAGCTTCCGGCCTAACT
AGCACTTACCCGACACGGTCTCTCCACCTCTCAGCCAGGAGGAGCTGGTGAACAACACAGAGTTGG
TGCAGAGCTACCGCAGCAGATTGGGAACGTGGTGAACCAGGCCAACCTGCAGCTTCTTGAACATGTA
CAACAGCCGACAGACCTGGACATTAACCGGCTGGAACGGTGGCAATGCCAAGACGCTCCGCTGCCCC
GTGATGCTGGTGGTTGGGATAATGCACCCGCTGAGGACGGGTGGTGGAGTGAACCTCAAACCTGGACC
CGACCACTACGACCTTCTGAAGATGGCAGACTCTGGAGGGTGGCCAGGTGACACAGCCAGGGAAGCT
GACTGAAGCCTTCAAATACTTCTGCAAGGCATGGGCTACATGCCCTCAGCCAGCATGACCCGCTGGCA
CGCTCCCGCACTGCATCCCTCACCAGTGCCAGCTCGGTGGATGGCAGCCGCCACAGGCCTGCACCCACT
CAGAGAGCAGCGAGGGGCTGGGCCAGGTCAACCACCATGGAGGTGTCCTGT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225600 representing NM_001130487
 Red=Cloning site Green=Tags(s)

MKVLGHRLELLTGLLLHDVMTAGLQELRFPEEKPLLRGQDATELESSDAFLAADTDWKEHDIETPYGLL
 HVVIRGSPKGNRPAILTYHDVGLNHKLCFNTEFNEDMQEITKHFVVCHVDAPGQQVVGASQFPQGYQFPS
 MEQLAAMLPSVVQHFQFKYVIGIGVGGAGAYVLAKFALIFPDLVEGLVLVNIDPNGKGWIDWAATKLSGLT
 STLPDVTLSHLFSQEELVNNTLVQSYRQQIGNVVNQANLQLFWNMYNSRRDLINRPQVTPNAKTLRCP
 VMLVVGDNAPAEQVVECNKSLDPTTTTFLKMADSGGLPQVTQPGKLEAFKYFLQGMGYMPSASMTRLA
 RSRASLTSASSVDGSRPQACTHSESSEGLGQVNHTMEVSC

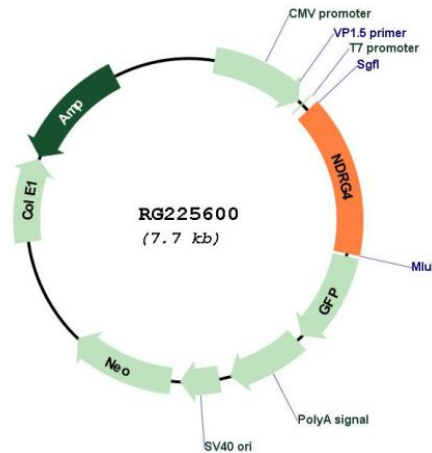
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001130487

ORF Size:	1173 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:	<ol style="list-style-type: none">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_001130487.2
RefSeq Size:	3581 bp
RefSeq ORF:	1176 bp
Locus ID:	65009
UniProt ID:	Q9ULP0
Cytogenetics:	16q21
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 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]