OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC121861

NDRG2 (NM_201538) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG2 (NM_201538) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDRG2
Synonyms:	SYLD
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_201538, the custom clone sequence may differ by one or more nucleotides

ATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACTGTTGCCAGGACAGACGCCTGAGGCGG
CCAAGACTCACTCTGTGGAGACACCATACGGCTCTGTCACTTTCACTGTCTATGGCACCCCCAAACCCAA
ACGCCCAGCGATCCTTACCTACCACGATGTGGGACTCAACTATAAATCTTGCTTCCAGCCACTGTTTCAG
TTCGAGGACATGCAGGAAATCATTCAGAACTTTGTGCGGGTTCATGTGGATGCCCCTGGAATGGAAGAGG
GAGCCCCTGTGTTCCCTTTGGGATATCAGTACCCATCTCTGGACCAGCTTGCAGACATGATCCCTTGCGT
CCTGCAGTACCTAAATTTCTCTACAATAATTGGAGTTGGTGTTGGAGCTGGAGCCTACATCCTGGCGAGA
TATGCTCTTAACCACCCGGACACTGTTGAAGGTCTTGTCCTCATCAACATTGATCCCAATGCCAAGGGTT
GGATGGATTGGGCAGCCCACAAGCTAACAGGCCTCACCTCTTCCATTCCGGAGATGATCCTTGGACATCT
TTTCAGCCAGGAAGAGCTCTCTGGAAATTCTGAGTTGATACAAAAGTACAGAAATATCATTACACATGCA
CCCAACCTGGATAACATTGAATTGTACTGGAACAGCTACAACAACCGCCGAGACCTGAACTTTGAGCGTG
GAGGTGATATCACCCTCAGGTGTCCTGTGATGCTGGTGGTAGGAGACCAAGCACCTCATGAAGATGCAGT
GGTGGAATGTAACTCAAAACTGGACCCCACCCAGACCTCGTTCCTCAAGATGGCTGACTCCGGAGGTCAG
CCCCAGCTGACTCAGCCAGGCAAGCTGACCGAGGCCTTCAAGTACTTCCTGCAAGGCATGGGCTACATGG
CCTCATCCTGCATGACTCGCCTGTCCCGGTCTCGTACAGCCTCTCTGACCAGTGCAGCATCCGTTGATGG
CAACCGGTCCCGCTCTCGCACCCTGTCCCAGAGCAGCGAGTCTGGAACTCTTTCTTCGGGGCCCCCGGGG
CACACCATGGAGGTCTCCTGTTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_201538 unedited
TTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCGCGGCGGCAGCAG
GCCACCATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACTGTTGCCAGGA
CAGACGCCTGAGGCGGCCAAGACTCACTCTGTGGAGACACCATACGGCTCTGTCACTTTC
ACTGTCTATGGCACCCCCAAACCCAAACGCCCAGCGATCCTTACCTACCACGATGTGGGA
CTCAACTATAAATCTTGCTTCCAGCCACTGTTTCAGTTCGAGGACATGCAGGAAATCATT
CAGAACTTTGTGCGGGTTCATGTGGATGCCCCTGGAATGGAAGAGGGAGCCCCTGTGTTC
CCTTTGGGATATCAGTACCCATCTCTGGACCAGCTTGCAGACATGATCCCTTGCGTCCTG
CAGTACCTAAATTTCTCTACAATAATTGGAGTTGGTGTTGGAGCTGGAGCCTACATCCTG
GCGAGATATGCTCTTAACCACCCGGACACTGTTGAAGGTCTTGTCCTCATCAACATTGAT
CCCAATGCCAAGGGTTGGATGGATTGGGCAGCCCACAAGCTAACAGGCCTCACCTCTTCC
ATTCCGGAGATGATCCTTGGACATCTTTTCAGCCAGGAAGAGCTCTCTGGAAATTCTGAG
TTGATACAAAAGTACAGAAATATCATTACACATGCACCCAACCTGGATACATTGAATTGT
ACTGGAACAGCTACACAACCGCCGAGACCTGAAACTTGAGCGTGGAGGTGATATCACCCC
TCAGTGTCCTGTGATGCTGGTGGTAGGAGACCAGCACCTCATGAGATGCAGTGGTGAATG
TACTCAAACTGGACCCCACCAGACTCGTCCTCAGATGCTGCTCTGGAGTCAGCCCACTGA
CTACCAGCAGCTGACGAGCCTTCANACTTCTGAN

Restriction Sites: ECoRI-NOT

ACCN: NM_201538

Insert Size: 2000 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:
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_201538.1, NP_963832.1

RefSeq Size: 2010 bp

RefSeq ORF: 1074 bp

Locus ID: 57447

UniProt ID: Q9UN36

Cytogenetics: 14q11.2

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]
Transcript Variant: This variant (5) differs in the 5' UTR and lacks an alternate in-frame exon in the coding region, compared to variant 1, resulting in a shorter protein (isoform b) that has a shorter N-terminus, compared to isoform a. Variants 2, 3, 5, 8, 11, and 12 encode the same isoform (b).