

Product datasheet for SC111833

NDRG2 (NM_016250) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDRG2 (NM_016250) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDRG2
Synonyms:	SYLD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111833 sequence for NM_016250 edited (data generated by NextGen Sequencing)

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ATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACTGTTGCCAGGACAGACG
CCTGAGGCGGCCAAGACTCACTCTGTGGAGACACCATACGGCTCTGTCACTTTCAGTGC
TATGGCACCCCAAAACCAACGCCAGCGATCCTTACCTACCACGATGTGGACTCAAC
TATAAATCTTGCTTCCAGCCACTGTTTCAGTTCGAGGACATGCAGGAAATCATTAGAAC
TTTGTGCGGGTTCATGTGGATGCCCTGGAATGGAAGAGGGAGCCCTGTGTTCCCTTTG
GGATATCAGTACCATCTCTGGACCAGCTTGCAGACATGATCCCTTGCCTCCTGCAGTAC
CTAAATTTCTCTACAATAATTGGAGTTGGTGTGGAGCTGGAGCCTACATCCTGGCGAGA
TATGCTCTTAACCACCCGACACTGTTGAAGTCTTGCCTCATCAACATTGATCCCAAT
GCCAAGGGTTGGATGGATTGGGAGCCCAAGCTAACAGGCCTCACCTTCCATTCCG
GAGATGATCCTTGGACATCTTTTCAGCCAGGAAGAGCTCTCTGGAATTCTGAGTTGATA
CAAAAGTACAGAAATATCATTACACATGCACCCAACTGGATAACATTGAATTGACTGG
AACAGCTACAACAACCGCCGAGACCTGAACTTTGAGCGTGGAGGTGATATCACCCCTCAGG
TGTCTGTGATGCTGGTGGTAGGAGACCAAGCACCTCATGAAGATGCAGTGGTGGAAATGT
AACTCAAACCTGGACCCACCCAGACCTCGTTCCTCAAGATGGCTGACTCCGGAGGTCAG
CCCCAGCTGACTCAGCCAGGCAAGCTGACCGAGGCCTTCAAGTACTTCTGCAAGGCATG
GGCTACATGGCCTCATCTGCATGACTCGCCTGTCCCGGTCTCGTACAGCCTCTCTGACC
AGTGCAGCATCCGTTGATGGCAACCGGTCCCGCTCTCGCACCCCTGTCCAGAGCAGCGAG
TCTGAACTCTTCTTCGGGGCCCCCGGGGCACACCATGGAGGTCTCTGTTGA

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Clone variation with respect to NM_016250.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016250 unedited CTTAGGATTTTGATAAACGNACTTTACTATAGGGCGGCACACCACTTCGGCAGAGGGGC AGCAGGCCACCATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACTGTTGC CAGGACAGACGCCTGAGGCGGCCAAGACTCACTCTGTGGAGACACCATACGGCTCTGTCA CTTTACTGTCTATGGCACCCCCAAACCCAAACGCCAGCTATCCTTACCTACCACGATG TGGACTCAACTATAAATCTTGCTTCCAGCCACTGTTTCAGTTTCGAGGACATGCAGGAAA TCATTGAGAAGTTTGTGCGGGTTCATGTGGATGCCCTGGAATGGAAGAGGGAGCCCTG TGTTCCTTTGGGATATCAGTACCCATCTCTGGACCAGCTTGCAGACATGATCCCTTGCG TCCTGCAGTACCTAAATTTCTCTACAATAATTGGAGTTGGTGTGGAGCTGGAGCCTACA TCCTGGCGAGATATGCTCTTAACCACCCGGACTGTTGAAGGTCTTGTCTCATCAACA TTGATCCCAATGCCAAGGGTTGGATGGATTGNGCAGCCACAAGCTAACAGGCCTCACCT CTTCCATTCCGGAGATGATCCTTGGACATCTTTTCAGCCAGGAAGAGCTCTCTGGAATT CTGAGTTGATACAAAAGTACAGAAATATCATTACACATGCACCCAACCTGGATAACATTG AATTGACTGGAACAGCTACNNACACCCGAGACCTGAACTTTGAGCGTGGNAGTGATA TACCCCTCAGTGTCTGTGATGCTGGTGGTAGGAGACCAAGCACTNATGAAGATGCANT GGTGGATGTAACCTANAACCTGGACCCACCCAGACCTCGTCTCAAGATGCTGACTCCC GAGTCAGCCCAGCTGACTTAGCAGC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016250 unedited GGGGGGGGCCCCGCGGGGCCCCGNCCCCCCCCNNNTCCGTTCTTGACTCTGCCCCGG GTCGCGATACTAGGATCGGGTTTTTTTTTTTTTTTTTTTTCAGAATCCTCTACAGTTTATTG TTATAGCAGAAGTTGTGGGAGACGGGAGGGCACCTCCCTCACATACTACAGTGTGGTCA GAGCCCCAGGGTAGCCCTTTCCACCCTATGCCAAGCCCCAAGCAGCCAGCCCAAGCTTA GCTCCCTCCCCAGTCCCCTCTAGATGCACACTGAGCTACCAAAGTTAGTGCAGCCAAAC GGCCCCAGGCCCTTCTGTTGCCCCAGCACCAATCCTTCCCCCACTCGTTCACTGCC GCCAACTCCCATTCCAATTCCTTTTTACTGGATGTTTCTATCACATCCTGAGGACCA CTAACCCACCAGCAAGTCTCCCCCTGACACACATTACGTAGGTCCATACCCTTCAGAGT CCTAAAGGGTTAATGAGAAGCCACCTCAGCTTTGGTGAATGGAGCCCCAGCCCCAAATCC CCTCCCCTTGCAAATATGGGACAAGTAGGGAGAGTCTGATGGAGGCCACAGGACAACCTAC AACAACCTTTACCCCTCAGCTATAGACACCTACATCAGGACAGAGGATGCATATGCCCT CTCCACCTTAACACCAAAATGGGGGAGGAGGAGAATTTAGGGGTCTGGTCCCTAAGAG AAATTAAGACATCTTTTTCAGGAGCTTGGGGGAATCACGGGTTAAAGGGCCAAGGTTAC GGTAAGCATTAAAGACAAGGGTCATTTCCCCGCATGATCTGCCTTTTTTCTTTGTTTA AGGGGGGCCAAAGCCCTTCAAACCTCCCAGGGTAGCTTTTGGGGGAGGAAAGGCTGG TTTCA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_016250
Insert Size:	1770 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_016250.2](#), [NP_057334.1](#)

RefSeq Size: 2100 bp

RefSeq ORF: 1074 bp

Locus ID: 57447

UniProt ID: [Q9UN36](#)

Cytogenetics: 14q11.2

Domains: Ndr

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 (2) lacks an alternate in-frame exon, 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).