

Product datasheet for SC313177

NDRG4 (NM_022910) Human Untagged Clone

Product data:

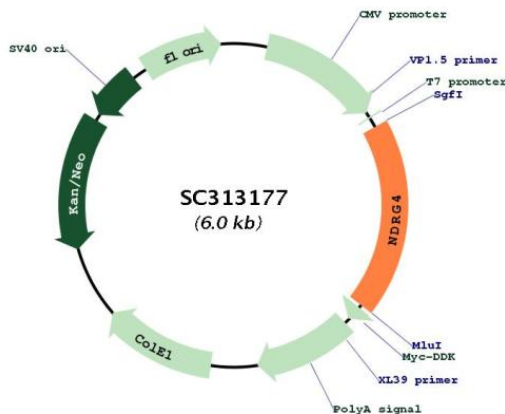
Product Type:	Expression Plasmids
Product Name:	NDRG4 (NM_022910) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDRG4
Synonyms:	BDM1; SMAP-8; SMAP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313177 representing NM_022910. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGGGCTGCAGGAGCTGCGATTCCCTGAGGAGAAGCCGCTGCTCCGGGGCCAGGACGCCACCGAG
CTGGAGAGCTCCGATGCCTTCCTCTTGGCTGCAGACACAGACTGGAAGGAACATGACATCGAGACACCC
TACGGCCTTCTGCATGTAGTGATCCGGGGCTCCCCAAGGGGAACCGCCAGCCATCCTCACCTACCAT
GATGTGGGCTCAACCACAACTATGCTTCAACACCTTCTCAACTTCGAGGACATGCAGGAGATCACC
AAGCACTTTGTGGTGTGTACGTGGATGCCCTGGACAACAGGTGGGGGGCTCGCAGTTTCTCAGGGG
TACCAGTTCCTCCATGGAGCAGCTGGCTGCCATGCTCCCAGCGTGGTGCAGCATTTCCGGTTCAAG
TATGTGATTGGCATCGGAGTGGGCGCCGGAGCCTATGTGCTGGCCAAGTTTGCACATCTTCCCAGAC
CTGGTGGAGGGGCTGGTCTGGTGAACATCGACCCCAATGGCAAAGGCTGGATAGACTGGGCTGCCACC
AAGCTCTCCGGCCTAACTAGCACTTTACCCGACACGGTGTCTCCCACCTCTTCAGCCAGGAGGAGCTG
GTGAACAACACAGAGTTGGTGCAGAGCTACCGGCAGCAGATTGGGAACGTGGTGAACCAGGCCAACCTG
CAGCTCTTCTGGAACATGTACAACAGCCGAGAGACCTGGACATTAACCGGCTGGAACGGTGCCCAAT
GCCAAGACGCTCCGCTGCCCGTGATGCTGGTGGTTGGGATAATGCACCCGCTGAGGACGGGTGGTG
GAGTGAACCTCCAACTGGACCCGACACTACGACCTTCTGAAGATGGCAGACTCTGGAGGCTGCC
CAGGTCACACAGCCAGGGAAGCTGACTGAAGCCTTCAAATCTCTGCAAGGCATGGGCTACATGCC
TCAGCCAGCATGACCCGCTGGCAGCTCCCGCACTGCATCCCTCACCAGTGCCAGCTCGGTGGATGGC
AGCCGCCACAGGCTGCACCCACTCAGAGAGCAGCGAGGGGCTGGGCCAGGTCAACCACACCATGGAG
GTGTCCTGTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_022910

Insert Size: 1116 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_022910.3](#)

RefSeq Size: 3453 bp

RefSeq ORF: 1116 bp

Locus ID: 65009

UniProt ID: [Q9ULP0](#)

Cytogenetics: 16q21
Domains: Ndr
MW: 40.6 kDa

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]
Transcript Variant: This variant (3) differs in the 5' UTR which results in the use of an in-frame downstream translation initiation codon, compared to variant 2. The encoded protein (isoform 1; also known as NDRG4-H) has a shorter N-terminus, compared to isoform 2. Variants 1 and 3 encode the same isoform.