

Product datasheet for **RR215182**

Nrdc (NM_012993) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrdc (NM_012993) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nrdc
Synonyms:	Nrd1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR215182 representing NM_012993 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGAGGAGAGTCGCGGTTGCTGCAGTCTTTGCCACCGGGAGGAAGTTGCGGTGTGAGGCCGGGCGGG
ACGTCACGGCTGTGGGACGAATCGAAGCACGGGCTCTGTGCGAAGAATCAGCGAAACCGTTTCTACGCT
GACCATGCCTGGCAGAAACAAGGCGAAGTCCACCTGCAGTTGCCCGGACCTGCAGCCTAATGGACAGGAC
TTGGGCGAGAGCGCGCGGTTGCTCGTCTAGGAGCGGATGAATCTGAGGAGGAGGACGGTCTCTCAGTA
ATGTCCGGGACCCCTGAGATCATCAAGTCTCCAGCGATCCAAGCAGTACCGATACATCAAATTACAGAA
TGGCTTGCAGGCTCTTTTATTTCAGATCTAAGTAATGTGGAGGGTAAAACAGGAAATGCAACAGATGAA
GAGGAAGAGGAAGAAGAGGAAGAGGAGGAGGGGAAAGAGGAAGAGGAAGAGGAAGAAGACGATGACGATG
ATGATGATGAAGACTCTGGAGCTGAGATACAGGATGATGATGAGGAAGGCTTTGACGATGAAGAGGAATT
TGATGATGATGAACATGATGATGATGATCTTGATAATGAGGAAAATGAACTGGAAGAAGTGAAGAGCGG
GTGGAAGCCAGAAAGAAAACCACTGAGAAACAGTCTGCAGCGGCTCTGTGTGTTGGAGTTGGGAGCTTTG
CTGATCCAGATGACCTGCCTGGGCTGGCACACTTTTTGGAGCACATGGTATTCATGGGTAGTTTGAATA
CCCAGATGAGAATGGATTTGATGCCTTCCCTCAAGAAACATGGAGGTAGTGATAATGCCTCAACCGATTGT
GAACGCACAGTCTTTTCAAGTGTCCAGAGAAAGTATTTCAAGGAAGCCCTGGATAGATGGGCCCACT
TCTTATCCATCCACTGATGATCAGAGATGCAATTGACCGAGAGGTGGAAGCTGTGGACAGTGAGTATCA
GCTTGCAAGACCTTCTGATGCAACAGAAAAGAAATGTTGTTTGGAAAGTCTTGCTAGACCTGGACATCCT
ATGGGGAAGTTTTTTGGGAAATGCTGAGACACTCAAGCATGAACCAAAGAAGAATAATATTGATACAC
ATGCCAGACTGAGAGAGTTCTGGATGCGTTACTACTCTGCTCATTACATGACCTTAGTAGCCAGTCCAA
AGAAACCTTGGACACTTTGGAAAAGTGGGTGACGGAGATCTTCTCTCAGATACCAACAATGGGCTACCT
AAACCAAACCTTTAGCCATTTAACGGATCCTTTTGACACACCAGCATTTAACAACTTTATAGAGTTGTT
CAATCAGAAAAATCCATGCTCTGACCATCACGTGGGCCCTTCTCCGAGCAGCAACACTACAGGTTGAA
GCCACTTCATTATATCTCCTGGCTGTGGGCGATGAAGGCAAAGGCGAGCATCCTTTCTTACCTTAGAAAA
AAGTGCTGGGCTCTTGCCTGTTTGGTGGAAATGGTGAGACAGGTTTTGAGCAAAATTCTACCTACTCAG



[View online »](#)

TGTT CAGCATTTCTATCACTCTGACTGATGAGGGGTATGAGCATTTTTATGAGGTTGCTCACACTGTCTT
TCAGTATTTAAAAATGCTGCAGAAACTAGGTCCGGAGAAAAGAGTTTTTGAAGAGATT CAGAAAATTGAG
GATAATGAATTTTCATTACCAAGAACAGACAGATCCAGTTGAGTACGTGGAGAACATGTGTGAGAACATGC
AGCTGTACCCACGTCAGGACTTTCTCACTGGAGATCAGCTTCTGTTT GAGTACAAGCCAGAAGTCATTGC
CGAGGCCCTTAATCAGCTAGTTCCTCAAAGGCCAAATCTCGTGCTTCTGTCTGGTGCTAACGAGGGAAGA
TGTGACCTCAAGGAGAAGTGGTTTGGGACTCAGTACAGCATAGAAGATATTGAAAACCTTTGGACTGAAC
TGTGGAAGAGCAATTTTGACTTAAATTCAGACCTTCATCTACCAGCTGAAAACAAATACATAGCCACGGA
CTTTACATTGAAGGCTTTTGATTGCCCTGAAACTGAATACCCTGCTAAAATTGTGAATACCCACCAAGGT
TGCTGTGGTATAAGAAAAGACAACAAATTCAAAATCCCCAAAGCCTATATACGATTTTCATCTGATCTCAC
CTTTGATACAGAAATCTGCAGCAATGTTGTCCTCTTCGACATCTTCGTCAACATTTCTACTCACAACT
TGCTGAGCCAGCCTATGAAGCCGATGTGGCCAGCTGGAGTATAAACTGGTAGCCGGAGAGCACGGTTTA
ATCATCCGAGTGAAGGGATTCAACCACAACTACCTCTGCTCTTCAGCTCATCATTGACTACCTGACTG
AGTTCAGCTCCACGCCGCTGTCTTCACCATGATAACTGAGCAGCTGAAGAAGACCTACTCAACATCCT
CATCAAGCCTGAGACTCTGGCCAAAGATGTGCGGCTTTAATTCTGGAATATTCCCGCTGGTCTATGATT
GACAAGTACCGAGCTTTGATGGATGGCCTTTCCCTTGAGTCTCTGCTAACTTTGTCAAGGATTTTAAAT
CCCAACTCTTTGTTGAGGGCCTGGTGCAAGGGAATGTCACCAGCACGGAATCGATGGATTTCTAAGATA
CGTTGTTGACAAGCTGAACTTCGTGCCCTGGAGCGGGAGATGCCCGTGAGTTCAGGTGGTGGAGCTG
CCGAGCGGCCACCACCTGTGCAAGT CAGAGCCCTGAATAAGGGGGACGCCAACTCTGAAGTCACTGTGT
ACTACCAGTCAGGTACAAGGAGTCTGAGAGAATACACGCTCATGGAGCTGCTTGTGATGCACATGGAGGA
GCCCTGCTTTGACTTCTTCGAACCAAGCAGACCCTTGGGTACCACGCTACCCGACCTGTAGGAACACA
TCTGGCATTCTAGGATTTCTGTA ACTGTTGGGACTCAGGCAACCAAATACA ACTCTGAACTGTTGACA
AGAAGATAGAAGAATTTCTTCCAGCTTTGAGGAGAAGATTGAGAACCTCACAGAGGATGCATTCAATAC
TCAGGTCACAGCTCTGATCAAGTTGAAAGAGTGTGAGGACACCCACCTCGGGGAGGAGTGGACAGGAAC
TGGAAATGAAGTGGTGACACAGCAGTATCTTTGACCGCCTTGCCCATGAGATTGAAGCGCTGAAGTCTT
TCTCAAAGTCAGACCTGGTCAGTTGGTTCAAGGCTCACAGAGGACCTGGGAGTAAAATGCTCAGCGTTCA
TGTTGTTGGATATGGAAGTATGAACTGGAAGAGGACGGCGCTCCCGTTTGTGAGGATCCGAATTCTCGT
GAAGGGATGCAGCTAATCTACCTGCCACCCTCTCCTCTCCTGGCAGAGTCCACCACCCCATTA CTGACA
TCAGGGCCTTCACAGCGACGCTCAGCCTTCCCTACCATAAGATAGTCAA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215182 representing NM_012993
 Red=Cloning site Green=Tags(s)

MLRRVAVAAVFATGRKLRCEAGRDTVAVGRIEARGLCEESAKPFPTLTMPGRNKAKSTCSCPDLQPNGQD
 LGESGRVARLGADESEEEGRSLSNVGDPEIIKSPSDPKQYRYIKLQNLQALLISDL SNVEGKTGNATDE
 EEEEEEEEEEEEEEEEEEDDDDDDEDSGAEIQDDDEEGFDDEEEFDDDEHDDDDLNEENELEEELEER
 VEARKKTTEKQSAALCVGVGSFADPDDLPLAHLFLEHMVFMGSLKYPDENGDFDAFLKHHGGSDNASTDC
 ERTVVFQFDVQRKYFKEALDRWAQFFIHPLMIRDAIDREVEAVDSEYQLARPSDANRKEMLFGSLARPGHP
 MGKFFWGNAETLKHEPKNNIDTHARLREFWMRYSAHYMTLVVQSKETLDTLEKVVTEIFSQIPNNGLP
 KPNFSLTDPFDTPAFNKLRYVVPPIRKIHALTITWALPPQQHYRVKPLHYISWLVGHEGKGSILSYLRK
 KCWALALFGNGETGFEQNSTYSVFSISITLDEGYEHFYVAHTVFQYLKMLQKLGPEKRVFEEIQKIE
 DNEFHYQEQTDPVEYVENMCENMQLYPRQDFLTGDQLLFEYKPEVIAEALNQLVPQKANLVLLSGANEGR
 CDLKEKWFQTSIEDIENSWTELWKSDFDLNSDLHLPANIKYIATDFTLKAFCPETEYPAKIVNTPQG
 CLWYKKNKFKIPKAYIRFHLISPLIQKSAANVFLDIFVNILTHNLAEPAYEADVAQLEYKLVAGEHGL
 IIRVKGFNHKLPLLFQLIIDYLTEFSSTPAVFTMITEQLKKTYNILIKPETLAKDVRLLEIYSRWSMI
 DKYRALMDGLSLESLLNFVKDFKSQLFVEGLVQGNVTSTESMDFLRVVVDKLNFPLEMPVQFQVVEL
 PSGHHLCKVRALNKGDANSEVTVYVYQSGTRSLREYTLMELLVMHMEPCDFDLRTKQTLGYHVYPTCRNT
 SGILGFSVTVGTQATKYNSVTDKIEEFLSSFEKIEINLTEDAFNTQVTALIKLKECEDTHLGEEDVDRN
 WNEVVTQYQLFDRLAHEIEALKSFKSKDLVSWFKAHRGPGSKMLSVHVVGYGKYLEEDGAPVCEDPNSR
 EGMQLIYLPSPLLAESTTPTDIRAFTATLSLFPYHKIVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

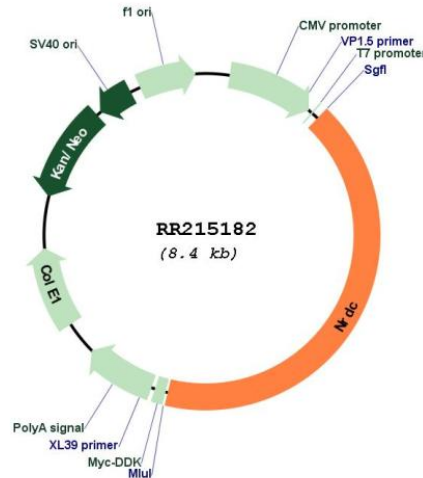
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012993

ORF Size: 3483 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:

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_012993.2](#), [NP_037125.1](#)

RefSeq Size: 3580 bp

RefSeq ORF: 3486 bp

Locus ID: 25499

UniProt ID: [P47245](#)

Cytogenetics: 5q34

MW: 133 kDa

Gene Summary: Zn²⁺-dependent endopeptidase; cleaves peptides at the N-terminus of Arg residues in dibasic sites [RGD, Feb 2006]