

Product datasheet for **SC316863**

Nardilysin (NRDC) (NM_001101662) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nardilysin (NRDC) (NM_001101662) Human Untagged Clone
Tag: Tag Free
Symbol: Nardilysin
Synonyms: hNRD1; hNRD2; NRD1
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001101662 edited
 CTGGGTTGGGGAGGGGTTCCAGCCTGTTCCCCGCGGCTGCGGCAGCACCCAGGGCCGGCC
 GCCACCGCCTCTAGAACGCGGAGGAGGTGGGTCCTGGGAAGCGGGATGTCCATCGCTCCA
 GCTTGGTGGTGAATGCTGAGGAGAGTCACTGTTGCTGCAGTCTGTGCCACCCGGAGGAAG
 TTGTGTGAGGCCGGGCGGAGCTCGCGGCGCTCTGGGGAATCGAAACGCGGGGTCCGTGC
 GAAGACTGCTGCTGCCAGACCCTTCTATTCTGGCCATGCCTGGAAGGAACAAGGCG
 AAGTCTACCTGCAGCTGCCCTGACCTGCAGCCCAATGGACAGGATCTGGGCGAGAACAGC
 CGGTTGCCCGTCTAGGAGCGGATGAATCTGAGGAAGAGGGACGGAGGGGGTCTCTCAGT
 AATGCTGGGGACCCTGAGATCGTCAAGTCTCCAGCGACCCCAAGCAATACCGATACATC
 AAATTACAGAATGGCTTGACGGCACTTCTGATTTGACACCTAAGTAATATGGAAGGTAAA
 ACAGGAAATACAACAGATGATGAAGAAGAAGAGGAGGTGGAGGAAGAAGAAGAAGATGAT
 GATGAAGATTCTGGAGCTGAAATAGAAGATGACGATGAAGAGGGTTTTGATGATGAAGAT
 GAGTTTGATGATGAACATGATGATGATCTTGATGACTGAGGATAATGAATTGGAAGATTA
 GAAGAGAGAGCAGAAGCTAGAAAAAACTACTGAAAAACAGTCTGCAGCGGCTCTTTGT
 GTTGGAGTTGGGAGTTTCGCTGATCCAGATGACCTGCCGGGGCTGGCACACTTTTTGGAG
 CACATGGTATTCATGGGTAGTTTGAAATATCCAGATGAGAATGGATTTGATGCCTTCCTG
 AAGAAGCATGGGGTAGTGATAATGCCTCAACTGATTGTGAACGCACTGTCTTTGAGTTT
 GATGTCCAGAGGAAGTACTTCAAGGAAGCTCTTGATAGATGGGCGCAGTTCTTCCATCCAC
 CCACTAATGATCAGAGATGCAATTGACCGTGAAGTTGAAGCTGTTGATAGTGAATATCAA
 CTTGCAAGGCCTTCTGATGCAAAACAGAAAAGGAAATGTTGTTGGAAAGCCTTGCTAGACCT
 GGACATCCTATGGGAAAATTTTTTTGGGAAAATGCTGAGACGCTCAAGCATGAGCCAAGA
 AAGAATAATATTGATACACATGCTAGATTGAGAGAATTCTGGATGCGTTACTACTCTTCT
 CATTACATGACTTTAGTGGTTCAATCCAAAGAAACACTGGATACTTTGGAAAAGTGGGTG
 ACTGAAATCTTCTCAGATACCAAACAATGGGTTACCCAGACCAAACCTTTGGCCATTTA
 ACGGATCCATTTGACACACCAGCATTTAACAACTTTATAGAGTTGTTCCAATCAGAAAA
 ATTCATGCTCTGACCATCACATGGGCACCTCCTCCTCAACAGCAACATTACAGGGTGAAG
 CCACTTCATTATATATCCTGGCTGGTTGGACATGAAGGCAAAGGCAGCATTCTTTCTTTC



[View online »](#)

CTTAGGAAAAAATGCTGGGCTCTTGCACTGTTTGGTGGAAATGGTGAGACAGGATTTGAG
 CAAAATTTACTTATTTCAGTGTTCAGCATTCTATTACATTGACTGATGAGGGTTATGAA
 CTTTTTATGAGGTTGCTTACACTGTCTTTTCAGTATTTAAAAATGCTGCAGAAGCTAGGC
 CCAGAAAAAAGAATTTTTGAAGAGATTCGGAAAAATTGAGGATAATGAATTTACATTACAA
 GAACAGACAGATCCAGTTGAGTATGTGGAAAACATGTGTGAGAACATGCAGCTGTACCCA
 TTGCAGGACATTCTCACTGGAGATCAGCTTCTTTTTGAATACAAGCCAGAAGTCATTGGT
 GAAGCCTTGAATCAGCTAGTTCCTCAAAAAGCAAATCTGTTTTACTGTCTGGTGCATAAT
 GAGGGAAAAATGTGACCTCAAGGAGAAATGGTTTGGAACTCAATATAGTATAGAAGATATT
 GAAAACTCTGGGCTGAACTGTGGAATAGTAATTTCAATTAATCCAGATCTTCACTT
 CCAGCTGAAAACAAGTACATAGCCACGGACTTTACGTTGAAGGCTTTTCGATTGCCCGGAA
 ACAGAATACCCAGTTAAAATTGTGAATACTCCACAAGGTTGCCTGTGGTATAAGAAAAGAC
 AACAAATCAAAATCCCCAAAGCATATACGTTTCCATCTAATTTACCGTTGATACAG
 AAATCTGCAGCAAATGTGGTCTCTTTGATATCTTTGTCAATATCCTTACGCATAACCTT
 GCGGAACCAGCTTATGAAGCAGATGTGGCACAGCTGGAGTATAAACTGGTAGCTGGAGAA
 CATGGTTTAATTATTCGAGTGAAAGGATTTAACCAAACTACCTCTACTGTTTCAGCTC
 ATTATTGACTACTTAGCTGAGTTCAATTCACACCAGCTGTCTTTACAATGATAACTGAG
 CAGTTGAAGAAGACCTACTTTAACATCCTCATCAAGCCCGAGACTTTGGCCAAAAGATGTA
 CGGCTTTTAATCTTGGAATATGCCCGTTGGTCTATGATTGACAAGTACCAGGCTTTGATG
 GACGGCTTTCCCTTGAGTCTCTGCTGAGCTTCGTCAAAGAATTCAAATCCCAGCTCTTT
 GTGGAGGGCCTGGTACAAGGGAATGTCACAAGCACAGAATCTATGGATTTCTGAAATAT
 GTTGTGACAACTAACTTCAAGCCTCTGGAGCAGGAGATGCCTGTGCAGTTCAGGTG
 GTAGAGCTGCCAGTGGCCACCATCTATGCAAAGTGAAGCTCTGAACAAGGGTGATGCC
 AACTCTGAAGTCACTGTGTACTACCAGTCAGGTACCAGGAGTCTAAGAGAATATACGTT
 ATGGAGCTGCTTGTGATGCACATGGAAGAACCTTGTGTTTACTTCTCGAACCAAGCAG
 ACCCTTGGGTACCATGTCTACCCTACCTGTAGGAACACATCCGGGATTCTAGGATTTTCT
 GTCAGTGTGGGACTCAGGCAACCAATACAATCTGAAGTTGTTGATAAGAAGATAGAA
 GAGTTTCTTTCTAGCTTTGAGGAGAAGATTGAGAACCTCACTGAAGAGGCATTCAACACC
 CAGGTCACAGCTCTCATCAAGCTGAAGGAGTGTGAGGATACCCACCTTGGGGAGGAGGTG
 GATAGGAACTGGAATGAAGTGGTTACACAGCAGTACCTCTTTGACCGCTTGCCACAGAG
 ATTGAAGCACTGAAGTCAATCTCAAAATCAGACCTGGTCAACTGGTTCAAGGCCCATAGA
 GGGCCAGGAAGTAAAATGCTCAGCGTTCATGTTGTTGGATATGGGAAGTATGAACTGGAA
 GAGGATGGTACCCTTCTAGTGAGGATTCAAATCTTCTTGTGAAGTGATGCAGCTGACC
 TACCTGCCAACCTCTCCTGCTGGCAGATTGTATCATCCCCATTACTGATATCAGGGCT
 TTCACAACAACACTCAACCTTCTCCCCTACCATAAAAATAGTCAAATAAATAAACTGCAGT
 CACGTTGGCCTGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: NotI-NotI
ACCN: NM_001101662
Insert Size: 3800 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_001101662.1](#), [NP_001095132.1](#)

RefSeq Size: 3836 bp

RefSeq ORF: 3456 bp

Locus ID: 4898

UniProt ID: [O43847](#)

Cytogenetics: 1p32.3

Protein Families: Druggable Genome, Protease

Gene Summary: This gene encodes a zinc-dependent endopeptidase that cleaves peptide substrates at the N-terminus of arginine residues in dibasic moieties and is a member of the peptidase M16 family. This protein interacts with heparin-binding EGF-like growth factor and plays a role in cell migration and proliferation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]

Transcript Variant: This variant (2) lacks alternate in-frame exons, compared to variant 1, resulting in a shorter protein (isoform b), compared to isoform a.