

Product datasheet for RC235163

Nardilysin (NRDC) (NM_001242361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nardilysin (NRDC) (NM_001242361) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NRDC
Synonyms:	hNRD1; hNRD2; NRD1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235163 representing NM_001242361 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGGTAACACAGGAAATACAACAGATGATGAAGAAGAAGAGGAGGTGGAGGAAGAAGAAGAAGATG
ATGATGAAGATTCTGGAGCTGAAATAGAAGATGACGATGAAGAGGGTTTTGATGATGAAGATGAGTTTGA
TGATGAACATGATGATGATCTTGATACTGAGGATAATGAATTGGAAGAATTAGAAGAGAGAGCAGAAGCT
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TGCCGGGGCTGGCACACTTTTGGAGCACATGGTATTCATGGGTAGTTTGAATATCCAGATGAGAATGG
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CAGTTTGATGTCCAGAGGAAGTACTTCAAGGAAGCTCTGATAGATGGGCGCAGTTCTTCATCCACCCAC
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TGATGCAAACAGAAAGGAAATGTTGTTGGAAAGCCTTGCTAGACCTGGACATCCTATGGGAAAATTTTTT
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AGGACATTCTCACTGGAGATCAGCTTCTTTTTGAATACAAGCCAGAAGTCATTGGTGAAGCCTTGAATCA
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Protein Sequence:

>RC235163 representing NM_001242361

Red=Cloning site Green=Tags(s)

MEGKTGNTTDEEEEEVEEEEEDEDDDEDSGAEIEDDDEEGFDEDEFDDEHDDLDTEDNELEEEERAEA
 RKKTTEKQQLQSLFLLWSKLTDRWFKSTYSKMSSTLLVETRNL YGVVGAESRSAPVQHLAGWQAEQQG
 ETDTVL SAAALCVGVGSFADPDDLPLLAHFL EHMVFMGSLKYPDENGFDAFLKKGSDNASTDCERTVF
 QFDVQRKYFKEALDRWAQFFIHPLMIRDAIDREVEAVDSEYQLARPSDANRKEMLFGSLARPGHPMGKFF
 WGNAETLKHEPRKNNIDTHARLREFWMRYSSHYMTLVVQSKETLDTLEKVVTEIFSQIPNNGLPRPNFG
 HLTDPFDTPAFNKLYRVVPIRKIHALTITWALPPQQQHYRVKPLHYISWLVGHEGKGSILSFLRKKCWAL
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 YQEQTDPVEYVENMCENMQLYPLQDILTGQQLLFEYKPEVIGEALNQLVPQKANLVLLSGANEGKCDLKE
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 LMDGLSLESLLSFVKEFKSQLFVEGLVQGNVTSTESMDFLKYYVVDKLNFKPLEQEMPVQFQVVELPSGHH
 LCKVKALNKG DANSEVTVYQSGTRSLREYTLMELLMHMEPCDFLRTKQTLGYHVYPTCRNTSGILG
 FSVTVGTQATKYNSEVVDKIEEFLSSFEEKIENL TEEAFNTQVTALIKLKECEDTHLGEEVDRNWNEVV
 TQQYLFDRLAHEIEALKSFSKSDLVNWFKAHRGPGSKMLSVHVVGYGKYELEEDGTPSSEDSNSSCEVMQ
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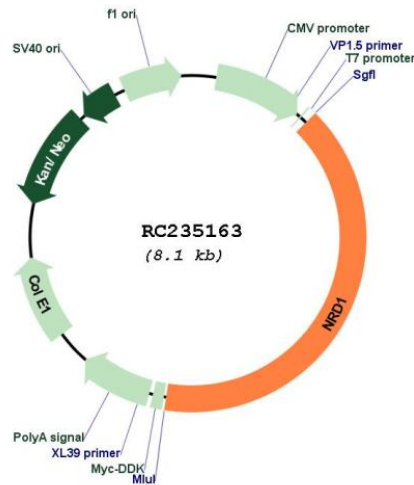
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242361

ORF Size: 3261 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:	<ol style="list-style-type: none">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:	<u>NM_001242361.1, NP_001229290.1</u>
RefSeq Size:	3435 bp
RefSeq ORF:	3264 bp
Locus ID:	4898
UniProt ID:	<u>O43847</u>
Cytogenetics:	1p32.3
Protein Families:	Druggable Genome, Protease
MW:	125.6 kDa
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]