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Product datasheet for RC213239

Nardilysin (NRDC) (NM_002525) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nardilysin (NRDC) (NM_002525) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nardilysin
Synonyms:	hNRD1; hNRD2; NRD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC213239 representing NM_002525
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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Protein Sequence:

>RC213239 representing NM_002525
Red=Cloning site Green=Tags(s)

MLRRVTVAAVCATRRKLCEAGRDVAALWGIETRGRCEDSAAARPFPILAMPGRNKAKSTCSCPDLQPNGQ
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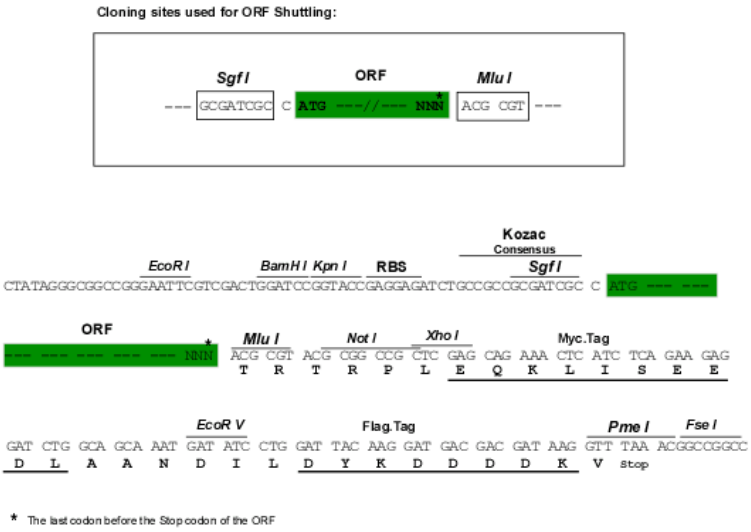
Restriction Sites: SgfI-MluI

Cloning Scheme:

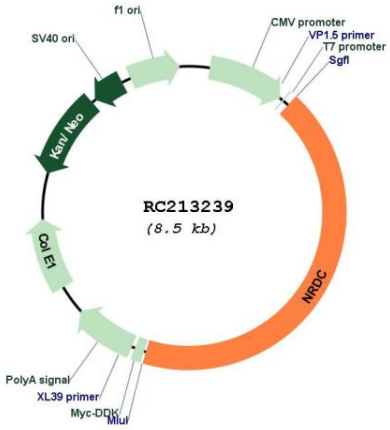


ACCN: NM_002525

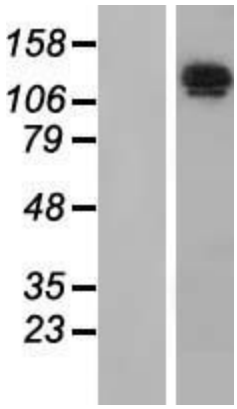
ORF Size: 3657 bp

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 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_002525.1, NP_002516.1
RefSeq Size:	3851 bp
RefSeq ORF:	3660 bp
Locus ID:	4898
UniProt ID:	O43847
Cytogenetics:	1p32.3
Domains:	Peptidase_M16, Peptidase_M16_C
Protein Families:	Druggable Genome, Protease
MW:	139.2 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]

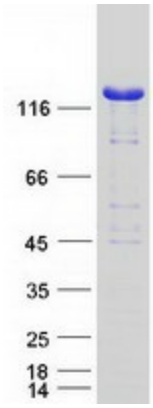
Product images:



Circular map for RC213239



Western blot validation of overexpression lysate (Cat# [LY419269]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213239 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NRDC protein (Cat# [TP313239]). The protein was produced from HEK293T cells transfected with NRDC cDNA clone (Cat# RC213239) using MegaTran 2.0 (Cat# [TT210002]).