

Product datasheet for **RR212533**

Rnls (NM_001014167) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnls (NM_001014167) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rnls
Synonyms: RGD1309804
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212533 representing NM_001014167
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCCGGGTACTGGTGGTGGGCGCCGGGCTAACCGAAGTTTGTGTGCCGCGCTGCTGAGGAAGGAGA
 TAACCGCTCCCCTGTACCTCGCCCTGTGGGACAAGGCTGGGACATAGGGGGAAGAATGACTACTGCCAA
 CAGTCCTCATAATCCCCGATGCACGGCTGACTTGGGAGCTCAGTACATCACCTGTACTCCTCATTATGCC
 AAAAAGCACAAAATTTTATGAGGAGCTTTTAGCTCATGGGATTTGGAGCCTCTGACGCTCCCATTA
 AAGGAATGGAAGTGAAGGAAGGAGAAAGCAACTTTGTGGCACCTCACGGGTTTTCTCCATTATCAAGTA
 CTACTTGAAGAATCAGGTGCTGAAGTCTTCTCAGGCAGTGTGTGACTCAGATCAATCTAAGAGATAAC
 AAGTGGGAAGTCTCTGAGGACACCGGCTCCACCCAGCAGTTTGACCTTGTATCCTTACCATGCCAGCTC
 CTCAGATTCTGGGTCTTCAAGGTGACATTGTGAACCTAATTAGTGAACGCCAGAGGCAGCAACTGGCATC
 TGTGAGCTACTCCTCTCGCTATGCTCTGGGCTCTTTTATGAAGCAGGCATGAAGATTGATGTCCCTTGG
 GCTGGCCAGTACATCACCAGTAATCCCTGCATACGCTTCATCTCCATTGACAGTAAGAAGCGCAACACAG
 AGTCATCAGAATGTGGCCATTGCTGGTGGTCCATACCACCGTCCATTGGAGTCACACTTGGAGCA
 CAGTGAGGAGGATGTGCAGGAGTTAATCACCCAGCAACTGGAAACCATTCTGCCGGGCTTCCCGCCGCCA
 GTTGCTACCAAATGCTGGAAGTGGAGATATTCACAGTTACAACTCAGCTGCCAACAGTCCCGCCGAGA
 TGACTTCTCATCTCAACCCTTCTGATATACATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR212533 representing NM_001014167
 Red=Cloning site Green=Tags(s)

MFRVLVVGAGLTGSLCAALLRKEITAPLYLALWDKAGDIGGRMTTANSPHNPRCTADLGAQYITCTPHYA
 KKHQNFYEELLAHGILEPLTSPKIGMEVKEGESNFVAPHGVSSIIKYYLKEGSAEFLRQCVTQINLRDN
 KWEVSEDTGSTQQFDLVILTMPAPQILGLQGDIVNLISERQRQLASVSYSRYALGLFYEAGMKIDVPW
 AGQYITSNPCIRFISIDSKKRNTESSECGPLL VHHTTVPFGVTHLEHSEEDVQELITQQLLETILPGLPPP
 VATKCKWRYQSQTNSAANSPGQMTLHLNPFLLIYI

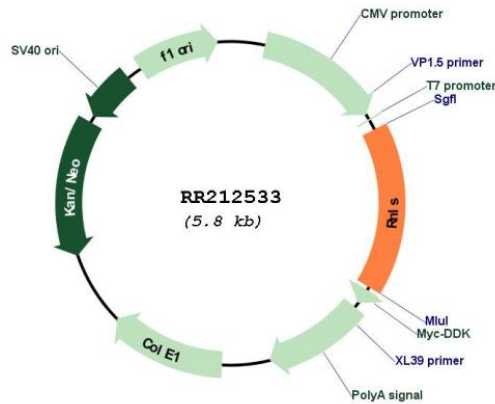
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014167

ORF Size: 945 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:	NM_001014167.1 , NP_001014189.1
RefSeq Size:	1825 bp
RefSeq ORF:	948 bp
Locus ID:	361751
UniProt ID:	Q5U2W9
Cytogenetics:	1q52
MW:	35 kDa
Gene Summary:	Catalyzes the oxidation of the less abundant 1,2-dihydro-beta-NAD(P) and 1,6-dihydro-beta-NAD(P) to form beta-NAD(P)(+) (By similarity). The enzyme hormone is secreted by the kidney, and circulates in blood and modulates cardiac function and systemic blood pressure. Lowers blood pressure in vivo by decreasing cardiac contractility and heart rate and preventing a compensatory increase in peripheral vascular tone, suggesting a causal link to the increased plasma catecholamine and heightened cardiovascular risk. High concentrations of catecholamines activate plasma renalase and promotes its secretion and synthesis. [UniProtKB/Swiss-Prot Function]