

## Product datasheet for RN212533

### Rnls (NM\_001014167) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rnls (NM\_001014167) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rnls  
**Synonyms:** RGD1309804  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN212533 representing NM\_001014167  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTTCCGGGTACTGGTGGTGGGCGCCGGGCTAACCGGAAGTTTGTGTGCCGCGCTGCTGAGGAAGGAGA  
TAACCGCTCCCCTGTACCTCGCCCTGTGGGACAAGGCTGGGGACATAGGGGAAGAATGACTACTGCCAA  
CAGTCCTCATAATCCCCGATGCACGGCTGACTTGGGAGCTCAGTACATCACCTGTACTCCTCATTATGCC  
AAAAAGCACAAAATTTTATGAGGAGCTTTTAGCTCATGGGATTTGGAGCCTCTGACGCTCCCATTA  
AAGGAATGGAAGTGAAGGAAGGAGAAAGCAACTTTGTGGCACCTCACGGGTTTTCTCCATTATCAAGTA  
CTACTTGAAGAATCAGGTGCTGAAGTCTTCTCAGGCAGTGTGTGACTCAGATCAATCTAAGAGATAAC  
AAGTGGGAAGTCTCTGAGGACACCGGCTCCACCCAGCAGTTTGACCTTGTATCCTTACCATGCCAGCTC  
CTCAGATTCTGGGTCTTCAAGGTGACATTGTGAACCTAATTAGTGAACGCCAGAGGCAGCAACTGGCATC  
TGTGAGTACTCCTCTCGCTATGCTCTGGGCTCTTTTATGAAGCAGGCATGAAGATTGATGTCCCTTGG  
GCTGGCCAGTACATCACCAGTAATCCCTGCATACGCTTCATCTCCATTGACAGTAAGAAGCGCAACACAG  
AGTCATCAGAATGTGGCCATTGCTGGTGGTCCATACCACCGTCCCATTTGGAGTCACACTTGGAGCA  
CAGTGAGGAGGATGTGCAGGAGTTAATCACCAGCAACTGGAAACCATTCTGCCGGCTTGCCCGCCCA  
GTTGCTACCAAATGCTGGAAGTGGAGATATTCACAGTTACAAACTCAGCTGCCAACAGTCCCGCCAGA  
TGACTCTTCATCTCAACCTTTCTGATATACAT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001014167  
**Insert Size:** 948 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001014167.1</a> , <a href="#">NP_001014189.1</a>
<b>RefSeq Size:</b>	1825 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	361751
<b>UniProt ID:</b>	<a href="#">Q5U2W9</a>
<b>Cytogenetics:</b>	1q52
<b>Gene Summary:</b>	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]