

## Product datasheet for MR216631

### Rnls (NM\_001146342) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rnls (NM\_001146342) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rnls  
**Synonyms:** 6530404N21Rik; AI452315; AW060440; C10orf59  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR216631 representing NM\_001146342  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATTACTGCCAGCAGTCCTCATAATCCCGATGCACAGCTGACTTGGGAGCTCAGTACATCACCTGCT  
CTCCTCATTATGTCAAAGAGCACAAAATTTTATGAGGAAGTGTAGCTCATGGAATTTGAAGCCTCT  
GACATCCCCATTGAAGGAATGAAAGGGAAGGAAGGAGATTGCAACTTTGTGGCACCTCAAGGATTTTCT  
TCAGTTATCAAGTACTACTTGAAAAAGTCAGGTGCAGAAGTCTCCCTCAAGCACTGTGTGACTCAGATCC  
ACCTGAAAGATAACAAGTGGGAAGTCTCCACAGACACTGGCTCTGCTGAGCAGTTTGACCTTGTCATCCT  
CACCATGCCAGCTCCTCAGATTCTGGAAGTCAAGGTGACATTGTGAACTTAATTAGTGAACGCCAGAGG  
GAGCAACTGAAATCTGTGAGCTACTCCTCTCGCTATGCTCTGGGCCTCTTTATGAAGTAGGCATGAAGA  
TTGGTGTCCCTTGGTCTGCCGCTACCTCAGCAGTCACCCCTGCATATGCTTCATCTCCATTGATAATAA  
GAAGCGCAATATAGAGTCATCAGAATGTGGTCCATCCGTGGTATCCAAACCACTGTCCCATTGGAGTT  
CAACACTTGGAGGCCAGTGAGGCGGATGTCAGAAGTTAATGATCCAGCAATTGAAACCACTCTGCCGG  
GTTTGCCTCAGCCAGTTGCTACCATATGCCATAAATGGACATATTCACAGTTACAAGCTCAGTTTCCGA  
CAGACCTGGTCAGATGACTTTCATCTCAAGCCTTTCTGGTGTGCGGAGGGGATGGATTACTCACTCC  
AACTCAATGGCTGCATCTCCTCTGCCCTGAGTGCATGAAAGTTTTAAAGCGTTATATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216631 representing NM\_001146342  
 Red=Cloning site Green=Tags(s)

MITASSPHNPRCTADLGAQYITCSPHYVKEHQNFYEELLAHGILKPLTSPIEGMKGKEGDCNFVAPQGFSSVIKYYLKKSGAEVSLKHCVTQIHLKDNKWEVSTDTGSAEQFDLVILTMPAPQILELQGDIVNLISERQREQLKSVSYSSRYALGLFYEVMKIGVPWSCRYSHPICIFISIDNKKRNIESSECGPSSVVIQTTVPFGVQHLEASEADVQKLMIQQLLETILPGLPQPVATICHKWTYSQVTSVSDRPGQMTLHLKPFLLVCGGDGFTHSNFNGCISSALSVMKVLKRYI

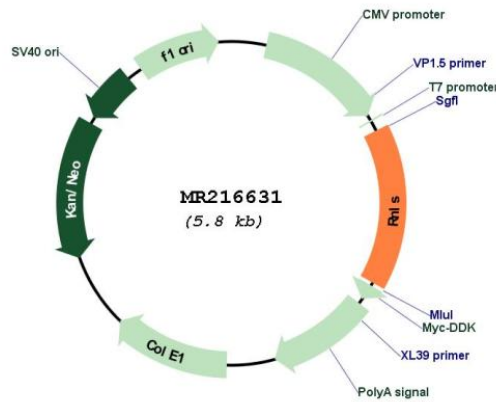
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001146342

ORF Size: 900 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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 Size:</b>	1383 bp
<b>RefSeq ORF:</b>	549 bp
<b>Locus ID:</b>	67795
<b>UniProt ID:</b>	<a href="#">A7RDN6</a>
<b>Cytogenetics:</b>	19 C1
<b>MW:</b>	20.7 kDa
<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)(+). 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]