

Product datasheet for **MC210626**

Rnls (NM_001146342) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnls (NM_001146342) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rnls
Synonyms: 6530404N21Rik; AI452315; AW060440; C10orf59
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC210626 representing NM_001146342
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGCTCCTCAGATTCTGGAAGTCAAGGTGACATTGTGAACTTAATTAGTGAACGCCAGAGGGAGC
AACTGAAATCTGTGAGCTACTCCTCGCTATGCTCTGGGCTCTTTTATGAAGTAGGCATGAAGATTGG
TGTCCTTGGTCTGCCCTACCTCAGCAGTCAACCCTGCATATGCTTCATCTCCATTGATAATAAGAAG
CGCAATATAGAGTCATCAGAATGTGGTCCATCCGTGGTGATCAAACCACTGTCCATTTGGAGTCAAC
ACTTGGAGGCCAGTGAGCGGATGTGCAGAAGTTAATGATCCAGCAATTGAAACCACTTCTGCCGGTTT
GCCTCAGCCAGTTGCTACCATATGCCATAAATGGACATATCACAGGTTACAAGCTCAGTTCCGACAGA
CCTGGTCAGATGACTCTTCATCTCAAGCCTTCTGCTGGTGTGCGGAGGGGATGGATTTACTCACTCCAAC
TCAATGGCTGCATCTCCTCTGCCCTGAGTGCATGAAAGTTTTAAAGCGTTATATT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001146342
Insert Size: 549 bp

OTI Disclaimer: 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).



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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_001146342.2</u> , <u>NP_001139814.2</u>
RefSeq Size:	1383 bp
RefSeq ORF:	549 bp
Locus ID:	67795
UniProt ID:	<u>A7RDN6</u>
Cytogenetics:	19 C1
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to variant 1.</p>