

Product datasheet for **MG216631**

Rnls (NM_001146342) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnls (NM_001146342) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rnls
Synonyms: 6530404N21Rik; AI452315; AW060440; C10orf59
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216631 representing NM_001146342
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATTACTGCCAGCAGTCCTCATAATCCCGATGCACAGCTGACTTGGGAGCTCAGTACATCACCTGCT
 CTCCTCATTATGTCAAAGAGCACCAAATTTTTATGAGGAAGTGTAGCTCATGGAATTTGAAGCCTCT
 GACATCCCCATTGAAGGAATGAAAGGGAAGGAGATTGCAACTTTGTGGCACCTCAAGGATTTTCT
 TCAGTTATCAAGTACTACTTGAAAAAGTCAGGTGCAGAAGTCTCCCTCAAGCACTGTGTGACTCAGATCC
 ACCTGAAAGATAACAAGTGGGAAGTCTCCACAGACTGGCTCTGCTGAGCAGTTTGACCTGTGCATCCT
 CACCATGCCAGCTCCTCAGATTCTGGAAGTCAAGGTGACATTGTGAAGTAAATTAGTGAACGCCAGAGG
 GAGCAACTGAAATCTGTGAGTACTCCTCTCGCTATGCTCTGGCCTCTTTTATGAAGTAGGCATGAAGA
 TTGGTGTCCCTTGGTCTGCCGCTACCTCAGCAGTCACCCCTGCATATGCTTCATCTCCATTGATAATAA
 GAAGCGCAATATAGATCATCAGAATGTGGTCCATCCGTGGTGTATCCAAACCACTGTCCCATTGGAGTT
 CAACACTTGGAGGCCAGTGAGCGGATGTGCAGAAGTTAATGATCCAGCAATTGGAACCACTTCTGCCGG
 GTTTGCCCTCAGCCAGTTGCTACCATATGCCATAAATGGACATATTCACAGGTTACAAGCTCAGTTCCGA
 CAGACCTGGTCAGATGACTCTTCATCTCAAGCCTTTCTGGTGTGCGGAGGGGATGGATTTACTCACTCC
 AACTTCAATGGCTGCATCTCCTGCCCCGAGTGCATGAAAGTTTTAAAGCGTTATATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216631 representing NM_001146342
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MITASSPHNPRCTADLGAQYITCSPHYVKEHQNFYEELLAHGILKPLTSPIEGMKGKEGDCNFVAPQGFSSVIKYYLKKSGAEVSLKHCVTQIHLKDNKWEVSTDTGSAEQFDLVILTMPAPQILELQGDIVNLISERQREQLKSVSYSSRYALGLFYEVMKIGVWPWSCRYSHPICIFISIDNKKRNIESSECGPSSVVIQTTVPFGVQHLEASEADVQKLMIQQLLETILPGLPQPVATICHKWTYSQVTSVSDRPGQMTLHLKPFLLVCGGDGFTHSNFNGCISSALSVMKVLKRYI

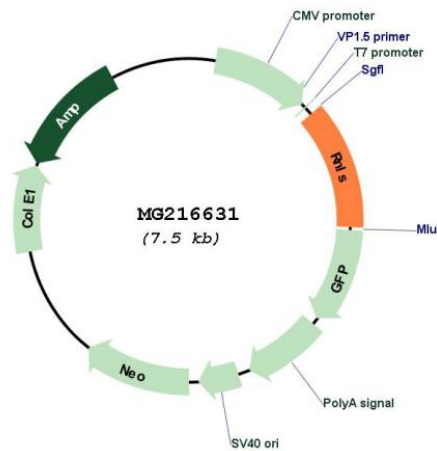
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001146342

ORF Size: 546 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_001146342.2 , NP_001139814.2
RefSeq Size:	1383 bp
RefSeq ORF:	549 bp
Locus ID:	67795
UniProt ID:	A7RDN6
Cytogenetics:	19 C1
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)(+). 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]