

Product datasheet for **RN212043**

Rrp8 (NM_001008346) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rrp8 (NM_001008346) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rrp8
Synonyms:	RGD1308302
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN212043 representing NM_001008346
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGAGGAGCCGAATGGGTCGAGGCGGCCAGCCATCGTTGGCCTCCGGCCGTGACAACACAGG
 TTCAGGCGGCGACTGCCCGCCAGTCAAGGGCCGTAAGCGCCGCATCTCTGGCTACATTACGAGCCCT
 GGAAGCAGCATCTCTCCAGCAATGCCCCAGCCTACCTGGCAGTGAAGTCTGAGGAAGAGGAGGAGGTA
 GGAAGGAAGAAGAGACACTTCCAAAGTCTCACTTGGCAATGTCTCAAAGGAAGTAGGGAAGAAAAGAA
 AAGGGAAGTGTCAAAAACAGGCACCATTTATCAGTGAAGTCTGAGGGGAAAGAAAGTGGAAAGAACATGCCA
 CAGACAAGCTCCTCTTGGCGGGATCTCTGCTGGAGAAGAAAAGGAAAGAGGAAATGCCAGGAATAT
 TCTTATTTACACCAACCCAGTCCCTGAACAGTGTGACCAAACAGTTTACAATTCTAGGACAAGTACTG
 CTACACTTGACCCACCAAGTCAAGCCGTGAGTCTGCATCACCTAACTCCTCACACACCCCTGAGCCGCAA
 GCAGTGGCGGAACCGGCAGAAAAATAAGCGGAGACACAAGAACAATTTTCGGCCACTTGAGACACAGGAC
 CAGGTGCCTCTCAAGGCTTCATAGAGGAGACTGAGGTGCCTCCTGCTCCAAAGTCAAGAGTCAAGAGA
 CTAGAGCTGGAGCCCTGCGAGCACGCATGACACAACGCCTGGATGGGGCCCGATTTCGCTACCTTAATGA
 ACAGCTGTACTCAGGGCCAGCAGTGTGCCCAATGCCTATTCCAGGAAGACCCTGAGGCTTTTCTCCTT
 TATCACCGTGGCTTTTCCAGAGACAAGTAAAGAAGTGGCCACTGCACCCCGTGGACCGCATTGCCAAAGATC
 TCCGTGAGAAGCCTGCATCCTTAGTGGTAGTGAAGTGGCTGTGGAGATTGCCGCTAGCTTCAAGTGT
 TCGGAACCCCGTGCATGTTTGGATTTGGCTGCTGACCCAGGGTCACTGTGTGTGACATGGCCAG
 GTACCTCTGGAGGATGAGTCTGTGGATGTGGCTGTGTTTGCCTTCACTAATGGGAACCAACATCAGGG
 ACTTCCTTGAGGAGGCGAATCGAGTGTAAAGCCAGGGGTCTTCTCAAAGTAGCGGAAGTCAGCAGCCG
 CTTTGAGGATATTCGGACCTTTTTGGGGCTGTGACCAAACCTGGCTTTAAGGTCACTACAAGGACCTG
 ACCAACAGCCACTTCTTCTGTTTGAAGTGTGAAAGACTGGACCTCCTCGAGTAGGACCCAAAGCCCAAC
 TCTCAGGCCTTAACTTCAGCCCTGTCTCTACAAGCACAGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001008346
- Insert Size:** 1374 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).
- 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:**
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_001008346.1](#), [NP_001008347.1](#)

RefSeq Size: 2095 bp

RefSeq ORF: 1374 bp

Locus ID: 308911

UniProt ID: [Q5U4F0](#)

Cytogenetics: 1q32

Gene Summary: Essential component of the eNoSC (energy-dependent nucleolar silencing) complex, a complex that mediates silencing of rDNA in response to intracellular energy status and acts by recruiting histone-modifying enzymes. The eNoSC complex is able to sense the energy status of cell: upon glucose starvation, elevation of NAD(+)/NADP(+) ratio activates SIRT1, leading to histone H3 deacetylation followed by dimethylation of H3 at 'Lys-9' (H3K9me2) by SUV39H1 and the formation of silent chromatin in the rDNA locus. In the complex, RRP8 binds to H3K9me2 and probably acts as a methyltransferase. Its substrates are however unknown (By similarity).[UniProtKB/Swiss-Prot Function]