

## Product datasheet for **MC228073**

### **Rrp8 (NM\_133951) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rrp8 (NM_133951) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rrp8
Synonyms:	1500003O22Rik; 2900001K19Rik; AW538116
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228073 representing NM\_133951  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCACCCCGAGTAGCGGAGAGAGGACTTGTAGCCGTCTCACTCGCCAACGCTTCAGCTCACCCCTGA  
 TTGAGGTCGTTCTCTGTGTTGTCCAGCCACAAGCGCACCGCCACCGCGTTGCCCTCCCGGCACTGAGTGA  
 AAATGTCGTCCATAGCAGCGTCCCGGCACAGAGACCCCGGACTGGGAAGCCTCGGGGACTGAGGGAG  
 AACAGAGACAAGAGAATGACTCTCTGTGGACGCAAGCGCCGCATCTCTTGGCCACATTACGGGCTCTGG  
 AAGCAGCATCTCTCCCAACAAACCCCGAGCCTACCTGGCAGTGACTCTGAGGAGGAGGAGGAGGTAGG  
 AAGGAAGAAGAGACACCTCAAAGGCCCTCACTTGCCAGCGTCTCAAAGGAAGTAGGGAAGAAAAGAAAA  
 GGGAAATGTCAGAAACAGGCGCCATCCATCAGTGACTCTGAGGGGAAAGAAAATAAGAAGAAAATGCCACA  
 GACAAGCTCCTCCTTTGGTGGGTCTCTGCTGGAGAAGAAAAGGAAAGAGAAAATGCCAGGAATATTC  
 CTCTTTACACCTAACCCAGCCCCGGACAGTGTTGACCAACAGTTCACAATCCAGGACGAGTACTGCT  
 ACAATTGACCCATCCAAGCCAAGCCCTGAGTCTATGTCACCTAACTCCTCACACACCCCTGAGCCGAAGC  
 AGTGGCGGAACCGGCAGAAAAATAAGCGGAGACACAAGAACAATTTTCGGCCACTCCAGACACCAGAGCA  
 GGCTCCTCCCAAGGCTTCCATAGAGGAGACTGAGGTGCCTCCTGTCCAAAGTCAGATAGTCAAGAGTCT  
 AGAGCTGGAGCCCTGCGAGCACGCATGACACAACGCCTGGATGGGGCCGATTTTCGCTACCTTAATGAAC  
 AGTTGTACTCAGGGCCAGCAGTGCTGCCCGACGCCTATTCCAGGAAGACCCTGAGGCTTTTCTCCTTTA  
 TCACCGTGGCTTCCAGAGACAAGTAAAGAAGTGGCCACTGCACCCAGTGGACCGTATTGCCAAAGATCTC  
 CGCCAGAAGCCTGCATCCTTAGTGGTAGCTGACTTTGGCTGTGGAGATTGCCGCCTAGCTTCAAGTGTCC  
 GGAACCCGTGCACTGTTTTGATTTGGCTTCTCTGGACCCAGGGTACAGTATGTGACATGGCCAGGT  
 GCCTCTGGAGGATGAATCTGTAGATGTGGCTGTGTTTTGCCTTTCACTGATGGGAACAAACATCAGGGAC  
 TTCTTGGAGGCAAATCGAGTGCTAAAAACAGGGGTCTTCTCAAAGTAGCTGAAGTCAAGCAGCCGCT  
 TTGAGGATATTCGGACCTTTTTGGGGGCTGTGACCAAACTCGGCTTTAAGATTATCTACAAGGACCTGAC  
 CAACAGCCACTTCTTCTGTTTACTTTGAAAAGACCGGACCTCCTCGAGTAGGACCCAAAGCCCAACT  
 TCAGGCCTTAACTTCAGCCCTGTCTCTACAAGCGCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_133951
- Insert Size:** 1512 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_133951.1](#), [NP\\_598712.1](#)

**RefSeq Size:** 2890 bp

**RefSeq ORF:** 1512 bp

**Locus ID:** 101867

**Cytogenetics:** 7 E3

**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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.