

## Product datasheet for **SC319409**

### RRP8 (NM\_015324) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RRP8 (NM_015324) Human Untagged Clone
Tag:	Tag Free
Symbol:	RRP8
Synonyms:	KIAA0409; NML
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_015324.2  
 CTGAGCGCTCCGACTTCCAGAGGAGCGCTGTGCACGTGGAGAAGAGCGGGGACTCGGCGA  
 CCCTGCCCTCCCGACCCTCATGTTCAAGAGCCTGAGTGGGCCGAGGCGGCCAGTAGC  
 CGCGGGCCTTGGGCCCGTAATCTCACGACCTCCGCCTGCGGCCTCCTCGCAAAACAAGGG  
 CTCCAAGCGCCGACGCTCTTGGCCACATTACGGGCCCTAGAGGCAGCATCTCTTTCCCA  
 GCATCCCCCAGCCTATGTATAAGTGACTCTGAGGAGGAGGAGGAAAGGAAGAAGAA  
 ATGCCCCAAAAAGGCATATTTGCCAGTGCCTCTGCTGAAGTAGGGAAGAAAGGGAAGAA  
 GAAATGTCAAAAACAGGGCCACCTTGCAGTGACTCTGAGGAAGAAGTAGAAAGGAAGAA  
 GAAATGCCACAAAACAGGCTCTTGTGGCAGTGACTCTGCTGAAGATGAGAAAAGAAAGAG  
 GAAATGCCAGAAACATGCCCTATAAATTCAGCCAGCACCTGGACAATGTTGACCAAAAC  
 AGGTCCCAAAGCCTGGAAGGGTAGTACTACAAATGATCCACAAAGCAAAGCCCTGGGTC  
 CACTTCCCCTAAACCCCTCATACTAAGCCGCAAGCAGTGGCGGAACCGGCAAAAGAA  
 TAAGAGAAGATGAAGAACAAGTTTCAGCCACCTCAGGTGCCAGACCAGGCCCCAGCTGA  
 GGCCCCACAGAGAAGACAGAGGTGTCTCCTGTTCCAGGACAGACAGCCATGAGGCTCG  
 GGCAGGGGCTTTGCGAGCCCGCATGGCACAGCGGCTGGATGGGGCCGATTTTCGCTACCT  
 CAATGAACAGTTGTACTCAGGGCCAGCAGTGCTGCACAGCGTCTCTCCAGGAAGACCC  
 TGAGGCTTTTCTCTCTACCACCGCGGCTTCCAGAGCCAAGTGAAGAAGTGGCCACTGCA  
 GCCAGTGGACCGCATCGCCAGGGATCTTCGCCAGCGGCCTGCATCCCTAGTGGTGGCTGA  
 CTTGCGGTGTGGGGATTGCCGCTTGGCTTCAAGTATCCGGAACCCCTGTGCATTGCTTTGA  
 CTTGGCTTCTCTGACCCTAGGGTCACTGTGTGTGACATGGCCAGGTTCTCTGGAGGA  
 TGAGTCTGTGGATGTGGCTGTGTTTGCCTTTCACTGATGGGAACCAACATCAGGGACTT  
 CCTAGAGGAGGCCAAATAGAGTACTGAAGCCAGGGGTCTCCTGAAAGTGGCTGAGGTCAG  
 CAGCCGCTTTGAGGATGTTCAACCTTTCTGCGGGCTGTGACCAAGCTAGGCTTCAAGAT  
 TGTCTCCAAGGACCTGACCAACAGCCATTCTTCTTGTGTTGATTTCCAAAAGACTGGGCC  
 CCCTCTGGTAGGGCCCAAGGCTCAGCTTTCAGGCCTGCAGCTTACGCCATGTCTCTACAA  
 GCGCAGGTGACCTCTGGATCTTCTTGAAGGGGAGGCAGATCTCAAACCTCAGGCTCAG  
 AACTGTGAAGACTGTTTCCAGCCTGGCTGTGAGCCAAGACCTGGTTCTGGTGGACCCTG  
 AGGACAAAGTGTGATAAAACCTCTGGCTCAGACTTGTCTACTGAAGGCTTCTTGGTTAT  
 AAGATGCATAAAGTCACTGGGGCTAGCTAAACAATAAAGAGTTTATTGTGAGAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_015324

**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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_015324.2](#), [NP\\_056139.1](#)

**RefSeq Size:** 1699 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 23378

**UniProt ID:** [O43159](#)

**Cytogenetics:** 11p15.4

**Domains:** DUF691

**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.[UniProtKB/Swiss-Prot Function]