

Product datasheet for **RG200844**

RRP8 (NM_015324) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RRP8 (NM_015324) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RRP8
Synonyms:	KIAA0409; NML
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200844 representing NM_015324
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTGAAGAGCCTGAGTGGGCGGAGCGGCCCCAGTAGCCGCGGGCCTTGGGCCGTAATCTCACGAC
 CTCGCGCTGCGGCCTCCTCGCAAAACAAGGGCTCCAAGCGCCGCCAGCTCTTGGCCACATTACGGGCCCT
 AGAGGCAGCATCTCTTTCCAGCATCCCCCAGCCTATGTATAAGTGAAGTCTGAGGAGGAGGAGGAGAA
 AGGAAGAAGAAATGCCCAAAAAGGCATCATTTGCCAGTGCCTCTGCTGAAGTAGGGAAGAAAGGAAGA
 AGAAATGTCAAAAACAGGGCCACCTTGCAAGTGAAGTGAAGAAAGAAAGAAAGAAATGCCA
 CAAACAGGCTCTGTTGGCAGTGAAGTGAAGAAAGAAAGAAAGAAAGAAATGCCA
 CCTATAAATTCAGCCAGCACCTGGACAATGTTGACCAACAGGTCCTAAAGCCTGGAAGGGTAGTACTA
 CAAATGATCCACCAAGCAAAGCCCTGGTCCACTTCCCTAAACCCCTCATACATTAAAGCCGCAAGCA
 GTGGCGGAACCGCAAAAGAATAAGAGAAGATGTAAGAACAAGTTTCAGCCACCTCAGGTGCCAGACCAG
 GCCCCAGCTGAGGCCCCACAGAGAAGACAGAGGTGTCTCTGTTCCAGGACAGACAGCCATGAGGCTC
 GGGCAGGGGCTTTGCGAGCCCGCATGGCACAGCGGCTGGATGGGGCCGATTTTCGCTACCTCAATGAACA
 GTTGTACTCAGGGCCAGCAGTGTGCACAGCGTCTCTCCAGGAAGACCCTGAGGCTTTTCTTCTCTAC
 CACCGCGGCTTCAGAGCCAAGTGAAGAAGTGGCCACTGCAGCCAGTGGACCGCATCGCCAGGGATCTTC
 GCCAGCGGCTGCATCCCTAGTGGTGGCTGACTTCGGCTGTGGGATTGCCGCTTGGCTTCAAGTATCCG
 GAACCTGTGCATTGCTTTGACTTGGCTTCTCTGGACCCTAGGGTCACTGTGTGTGACATGGCCAGGTT
 CCTCTGGAGGATGAGTCTGTGGATGTGGCTGTGTTTGCCTTTCAGTATGGGAACCAACATCAGGGACT
 TCCTAGAGGAGGCAAAATAGAGTACTGAAGCCAGGGGCTCCTGAAAGTGGCTGAGGTGAGCAGCCGCTT
 TGAGGATGTTTCAACCTTTCTGCGGGCTGTGACCAAGCTAGGCTTCAAGATTGTCTCCAAGGACCTGACC
 AACAGCCATTTCTTGTGTTGATTTCCAAAAGACTGGGCCCTCTGGTAGGGCCAAGGCTCAGCTTT
 CAGGCCTGCAGCTTCAGCCATGTCTCTACAAGCGCAGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200844 representing NM_015324
 Red=Cloning site Green=Tags(s)

MFEPEWAEAAPVAAGLGPVISRPPPAASSQNKGSKRRQLLATLRALEAASLSQHPPSLCISDSEEEEE
 RKKKCPKKASFASASAEVGKKKKKQKQGPPCSDSEEEVERKKKCHKQALVGSDSAEDKRKRKCQKHA
 PINSAQHLDNVDQTGPKAWKGSTTNDPPKQSPGSTSPKPPHTLSRKQWRNRQKNRRCNKFQPPQVPDQ
 APAEAPTEKTEVSPVPRDTSHEARAGALRMAQRLDGARFRYLNEQLYSGPSSAAQRLFQEDPEAFLLY
 HRGFQSQVKKWPLQPVDRIDRLRQPASLVVADFGCGDCRLASSIRNPVHCFDLASLDPRVTVCDMAQV
 PLEDESVDYAVFCLSLMGTNIRDFLLEANRVLKPGLLKVAEVSSRFEDVRTFLRAVTKLGFKIVSKDLT
 NSHFFLFDFQKTGPPLVGPKAQLSGLQLQPCLYKRR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_015324

ORF Size: 1368 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015324.2](#), [NP_056139.1](#)

RefSeq Size: 1699 bp

RefSeq ORF: 1371 bp

Locus ID: 23378

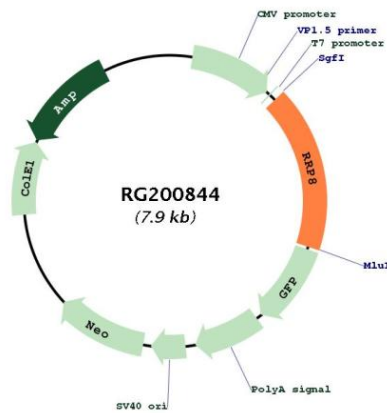
UniProt ID: O43159

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]

Product images:



Circular map for RG200844