

Product datasheet for **RC200844**

RRP8 (NM_015324) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RRP8 (NM_015324) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RRP8
Synonyms:	KIAA0409; NML
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200844 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTCTGAAGAGCCTGAGTGGGCGGAGCGGCCCCAGTAGCCGCGGCCTTGGGCCGTAATCTCACGAC
 CTCGCGCTGCGGCTCCTCGCAAAACAAGGGCTCCAAGCGCCGCCAGCTTTGGCCACATTACGGGCCCT
 AGAGGCAGCATCTCTTTCCAGCATCCCCCAGCCTATGTATAAGTGAAGTCTGAGGAGGAGGAGGAA
 AGGAAGAAGAAATGCCCCAAAAGGCATCATTTGCCAGTGCCTCTGCTGAAGTAGGAAGAAAGGAAGA
 AGAAATGTCAAAACAGGGCCACCTTGCACTGACTCTGAGGAAGAAGTAGAAAGGAAGAAGAAATGCCA
 CAAACAGGCTCTGTTGGCAGTACTCTGCTGAAGATGAGAAAAGAAAGAGGAAATGCCAGAAACATGCC
 CCTATAAATTCAGCCAGCACCTGGACAATGTTGACCAACAGGTCCCAAAGCCTGGAAGGGTAGTACTA
 CAAATGATCCACAAAGCAAAGCCCTGGTCCACTTCCCTAAACCCCTCATACATTAAAGCGCAAGCA
 GTGGCGGAACCGCAAAAGAATAAGAGAAGATGTAAGAACAAGTTTCAGCCACCTCAGGTGCCAGACCAG
 GCCCCAGCTGAGGCCCCACAGAGAAGACAGAGGTGTCTCTGTTCCAGGACAGACAGCCATGAGGCTC
 GGGCAGGGGCTTTGCGAGCCCGCATGGCACAGCGGCTGGATGGGGCCGATTTCGCTACCTCAATGAACA
 GTTGTACTCAGGGCCAGCAGTGTGCACAGCGTCTCTCCAGGAAGACCCTGAGGCTTTTCTTCTCTAC
 CACCGCGGCTTCAGAGCCAAGTGAAGAAGTGGCCACTGCAGCCAGTGGACCGCATCGCCAGGGATCTTC
 GCCAGCGGCTGCATCCCTAGTGGTGGCTGACTTCGGCTGTGGGATTGCCGCTTGGCTTCAAGTATCCG
 GAACCTGTGCATTGCTTTGACTTGGCTTCTCTGGACCCTAGGCTCACTGTGTGACATGGCCAGGTT
 CCTCTGGAGGATGAGTCTGTGGATGTGGCTGTGTTTGCCTTTCCTGATGGGAACCAACATCAGGGACT
 TCCTAGAGGAGGCAAAATAGAGTACTGAAGCCAGGGGTCTCCTGAAAGTGGCTGAGGTGAGCAGCCGCTT
 TGAGGATGTTTGAACCTTTCTGCGGGCTGTGACCAAGCTAGGCTTCAAGATTGTCTCCAAGGACCTGACC
 AACAGCCATTTCTTGTGTTGATTTCAAAAGACTGGGCCCCCTCTGGTAGGGCCAAGGCTCAGCTTT
 CAGGCCTGCAGCTTCAGCCATGTCTCTACAAGCGCAGG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200844 protein sequence
 Red=Cloning site Green=Tags(s)

MFEPEWAEAAPVAAGLGPVISRPPPAASSQNKGSKRRQLLATLRALEAASLSQHPPSLCISDSEEEEE
 RKKKCPKKASFASAEVGGKGGKKKQKQGPPCSDSEEEVERKKKCHKQALVGSDSAEDKRKRKCQKHA
 PINSAQHLDNVDQTGPKAWGSTTNDPPKQSPGSTSPKPPHTLSRKQWRNRQKNRRCNKFQPPQVPDQ
 APAEAPTEKTEVSPVPRDTSHEARAGALRARMARLDGARFRYLNELYS GPSSAAQRLFQEDPEAFLLY
 HRGFQSQVKKWPLQPVDRIRDLRQRPASLVVADFGCGDCRLASSIRNPVHCFDLASLDPRVTVCDMAQV
 PLEDESVDVAVFCLSLMGTNIRDFLEENRVLKPGGLLKVAEVSSRFEDVRTFLRAVTKLGFKIVSKDLT
 NSHFFLDFQKTGPPLVGPKAQLSGLQLQPCLYKRR

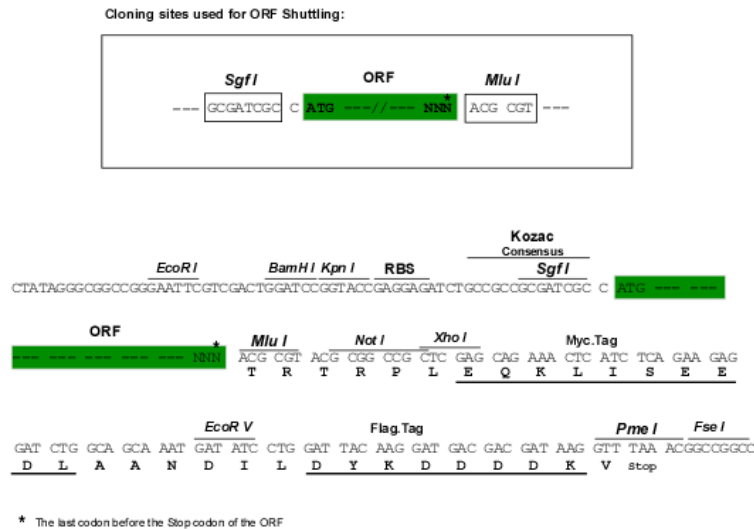
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6397_c01.zip

Restriction Sites:

Sgfl-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: 1762 bp

RefSeq ORF: 1371 bp

Locus ID: 23378

UniProt ID: O43159

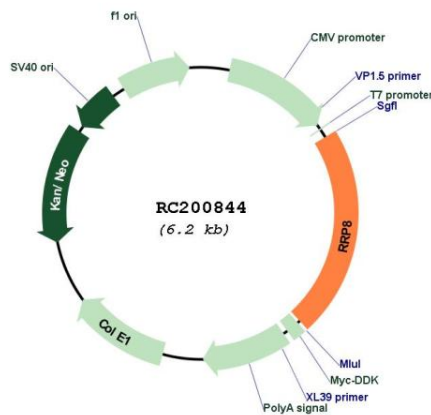
Cytogenetics: 11p15.4

Domains: DUF691

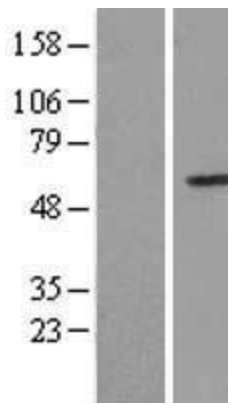
MW: 50.7 kDa

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]

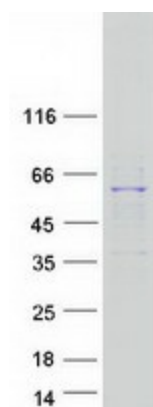
Product images:



Circular map for RC200844



Western blot validation of overexpression lysate (Cat# [LY414621]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200844 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RRP8 protein (Cat# [TP300844]). The protein was produced from HEK293T cells transfected with RRP8 cDNA clone (Cat# RC200844) using MegaTran 2.0 (Cat# [TT210002]).