

Product datasheet for **MR222109**

Rbbp4 (NM_009030) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbbp4 (NM_009030) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbbp4
Synonyms:	mRbAp48; RBAP48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222109 representing NM_009030
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGACAAGGAAGCGGCCTTTGACGACGCAGTGAAGAACGGGTGATCAACGAGGAGTACAAAATAT
 GGAAGAAGAACACCCCTTTTCTTTATGATTTGGTGATGACCCATGCCCTGGAGTGGCCAGCTTAACTGC
 CCAAGTGGCTTCCAGATGTGACGAGCCTGAAGGAAAGATTTCCAGCATTATCGGCTTGTCTGGGAACA
 CACACATCTGATGAACAGAACCCCTGGTGATTGCCAGTGTCCAGCTCCCTAATGATGATGCTCAGTTTG
 ATGCATCCATTATGACAGTAAAAAGGAGAATTTGGAGGTTTTGGTTCTGTCAGTGGGAAAATTGAAAT
 AGAAATCAAGATCAACCATGAAGGAGAAGTGAACAGGGCCGGTACATGCCTCAGAACCCCTGCATCATT
 GCAACAAAGACTCCATCCAGTGTCTTGTCTTTGACTACACAAAGCACCCCTCTAAACCAGACCCTT
 CTGGAGAATGCAACCCGATTTGCGTCTCCGTGGACATCAGAAGGAAGTTATGGCTTTCTTGGAAATCC
 AAATCTCAGTGGCACTTACTTAGTGCTTCAGATGACCATACCATCTGCCTGTGGGACATCAGTGCAGTT
 CCAAAAGAAGGAAAGGTGGTGGATGCAAAGACCATCTTACGGGGCATACAGCAGTGTGGAGGACGTGT
 CCTGGCATCTGCTCCACGAGTCTCTATTTGGCTCAGTTGCTGATGACCAGAAGCTTATGATTTGGGACAC
 TCGTTCAAACAATACTTCCAAGCCAAGCCACTCGGTTGATGCTCACACAGCTGAAGTGAATTGCTTATCT
 TTCAATCCTTATAGTGAGTTCATCTTGGCACAGGATCGGCTGACAAGACTGTTGCCTTGTGGGATCTGA
 GGAATCTGAAACTCAAGTTGCACTCCTTTGAATCCCATAGGATGAAATATTCCAAGTTCAGTGGTCACC
 TCACAATGAGACTATCTTAGCTTCCAGTGGTACCGATCGTAGGCTGAATGCTGGGATCTAAGTAAAATT
 GGAGAAGAGCAGTCCCCAGAAGATGCAGAGGATGGCCACCAGAATTGTTGTTTATTTCATGGTGGTCACA
 CTGCCAAGATATCTGACTTCTCCTGGAATCCCAATGAGCCTTGGGTGATTTGTTCTGTATCAGAAGACAA
 TATCATGCAAGTGTGGCAGATGGCGGAGAACATTTACAATGATGAAGATCCTGAAGGAAGTGTGGATCCA
 GAGGGACAAGGGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222109 representing NM_009030
 Red=Cloning site Green=Tags(s)

MADKEAAFDDAVEERVINEEYKIWKNTPFYDLVMTHALEWPSLTAQWLPDVTREPKDFSIHRLVLGT
 HTSDEQNLHVIASVQLPNDDAQFDASHYDSEKGEFGGFGSVSGKIEIEIKINHEGEVNRARYMPQNPCII
 ATKTPSSDVLVFDYTKHPSKPDPSGECNPDRLRGHQKEGYGLSWNPNLSGHLLSASDDHTICLWDISAV
 PKEGKVVDAKTIFGTHTAVVEDVSWHLLHESLFGSVADDQKLMIWDRSNNTSKPSHSVDAHTAEVNCLS
 FNPYSEFILATGSADKTVALWDLRNLKLLHSFESHKDEIFQVQWSPHNETILASSGTDRLNLVWDLSKI
 GEEQSPEDAEDGPPPELLFIHGHTAKISDFSWNPNEPWVICSVSEDNIMQVWQMAENIYNDEDPEGSVDP
 EGQGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9044_a12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_009030

ORF Size: 1275 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

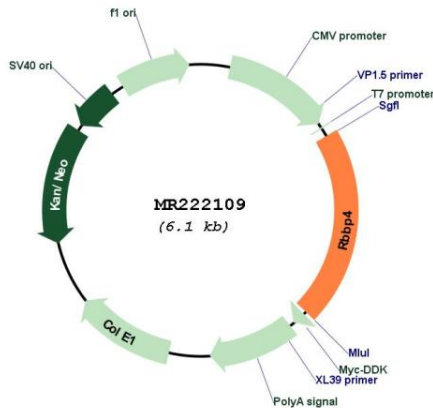
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_009030.3](#), [NP_033056.2](#)

RefSeq Size: 4407 bp
 RefSeq ORF: 1278 bp
 Locus ID: 19646
 UniProt ID: [Q60972](#)
 Cytogenetics: 4 D2.2
 MW: 48.1 kDa

Gene Summary: Core histone-binding subunit that may target chromatin assembly factors, chromatin remodeling factors and histone deacetylases to their histone substrates in a manner that is regulated by nucleosomal DNA. Component of several complexes which regulate chromatin metabolism. These include the chromatin assembly factor 1 (CAF-1) complex, which is required for chromatin assembly following DNA replication and DNA repair; the core histone deacetylase (HDAC) complex, which promotes histone deacetylation and consequent transcriptional repression; the nucleosome remodeling and histone deacetylase complex (the NuRD complex), which promotes transcriptional repression by histone deacetylation and nucleosome remodeling; and the PRC2/EED-EZH2 complex, which promotes repression of homeotic genes during development; and the NURF (nucleosome remodeling factor) complex (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222109