

## Product datasheet for **MG222109**

### **Rbbp4 (NM\_009030) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rbbp4 (NM_009030) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rbbp4
Synonyms:	mRbAp48; RBAP48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222109 representing NM_009030 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGACAAGGAAGCGGCCTTTGACGACGCAGTGGAAGAACGGGTGATCAACGAGGAGTACAAAATAT  
GGAAGAAGAACACCCCTTTTCTTTATGATTTGGTGATGACCCATGCCCTGGAGTGGCCAGCTTAACTGC  
CCAGTGGCTTCCAGATGTGACCAGGCCTGAAGGAAAGATTTGAGCATTTCATCGGCTTGCCTGGGAACA  
CACACATCTGATGAACAGAACCACCTGGTGATTGCCAGTGTCCAGCTCCCTAATGATGATGCTCAGTTTG  
ATGCATCCATTATGACAGTGAAAAAGGAGAATTTGGAGTTTTGGTTCTGTGAGTGGGAAAATTGAAAT  
AGAAATCAAGATCAACCATGAAGGAGAAGTGAACAGGGCCCGGTACATGCCTCAGAACCCCTGCATCATT  
GCAACAAAGACTCCATCCAGTGATGTTCTTGTGTTTGGTACTACACAAAGCACCCCTTCTAAACCAGACCCCT  
CTGGAGAATGCAACCCCGATTGCGTCTCCGTGGACATCAGAAGGAAGGTTATGGGCTTTCTTGGAAATCC  
AAATCTCAGTGGGCCTTACTTAGTGCTTCAGATGACCATACCATCTGCCTGTGGGACATCAGTGCAGTT  
CCAAAAGAAGGAAAGGTGGTGGATGCAAAGACCATCTTACGGGGCATACAGCAGTAGTGGGAGCAGTGT  
CCTGGCATCTGCTCCACGAGTCTCTATTTGGCTCAGTTGCTGATGACCAGAAGCTTATGATTTGGGACAC  
TCGTTCAAACAATACTTCCAAGCCAAGCCACTCGGTTGATGCTCACACAGCTGAAGTGAATTGCTTATCT  
TTCAATCCTTATAGTGAGTTTCTTTGCCACAGGATCGGCTGACAAGACTGTTGCCCTTGTGGGATCTGA  
GGAATCTGAAACTCAAGTTGCACTCCTTTGAATCCATAAGGATGAAATATTCCAAGTTCAGTGGTCAAC  
TACAATGAGACTATCTTAGCTTCCAGTGGTACCGATCGTAGGCTGAATGTCTGGGATCTAAGTAAAT  
GGAGAAGAGCAGTCCCCAGAAGATGCAGAGGATGGCCACCAGAATTGTTGTTTATTCATGGTGGTCACA  
CTGCCAAGATATCTGACTTCTCCTGGAATCCCAATGAGCCTTGGGTGATTTGTTCTGTATCAGAAGACAA  
TATCATGCAAGTGTGGCAGATGGCGGAGAACATTTACAATGATGAAGATCCTGAAGGAAGTGTGGATCCA  
GAGGGACAAGGTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222109 representing NM\_009030  
 Red=Cloning site Green=Tags(s)

MADKEAAFDDAVEERVINEEYKIWKNTPLYDLVMTHALEWPSLTAQWLPDVTRPEGKDFSIHRLVLGTHSDEQNLVIASVQLPNDDAQFDASHYDSEKGEFGGFGSVSGKIEIEIKINHEGEVNRARYMPQNPCIIATKTPSSDVLVFDYTKHPSKPDPSGECNPDLRLRGHQKEGYGLSWNPNSGHLLSASDDHTICLWDISAVPKEGKVVDAKTIFTGHTAVVEDVSWHLLHESLFGSVADDQKLMIWDRSNNTSKPSSHVDAHTAEVNCLSFNPYSEFILATGSADKTVALWDLRNLKLLHSFESHKDEIFQVQWSPHNETILASSGTDRLNVDLWSKIGEEQSPEDAEDGPPELLFIHGGHTAKISDFSWNPNEPWVICSVSEDNIMQVWQMAENIYNDEDPEGSVDP  
 EGQS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009030

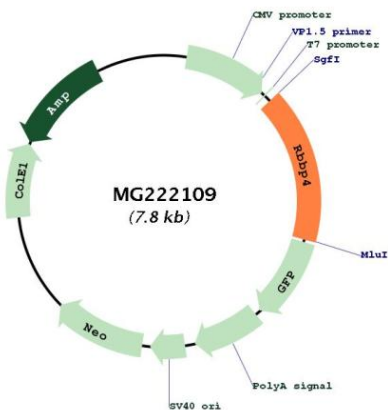
**ORF Size:** 1275 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_009030.3</a></u> , <u><a href="#">NP_033056.2</a></u>
<b>RefSeq Size:</b>	4407 bp
<b>RefSeq ORF:</b>	1278 bp
<b>Locus ID:</b>	19646
<b>UniProt ID:</b>	<u><a href="#">Q60972</a></u>
<b>Cytogenetics:</b>	4 D2.2
<b>Gene Summary:</b>	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 MG222109