

Product datasheet for **MG205771**

Rbbp5 (BC057632) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbbp5 (BC057632) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rbbp5
Synonyms:	4933411J24Rik; C330016J05
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205771 representing BC057632 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAAATCTGCTCCTGTCATGTTGACCCTTTCAGATTCCAACATGTTGTTCTGCCGGTAGACGATGACT
CGGATTGAACGTGGTGGCATCTTTGATAGGCGAGGGGAATATATTTATACAGGAAATGCAAAAGGCAA
GATCTTGGTCCTAAAAACAGACTCTCAGGATCTTGTGCTTCCTCAGAGTAACAACCTGGGACAAGCAAT
ACTACCGCCATTAAGTCAATTGAGTTGCCCGGAAGGGAGTTGCTTCTGATTAACACAGCAGATCGAA
TAATAAGAGTCTATGACGGCAGAGAGATTTAACGTGTGGAAGGGATGGAGAGCCAGAGCCTATGCAGAA
GCTGCAGGACTTGGTGAATAGGACTCCATGGAAAAATGTTGTTTCTCTGGGGATGGGGAGTACATAGTG
GCGGGCTCTGCGAGGCAGCATGCGCTGTATATCTGGGAAAAGAGCATTGGCAACCTGGTGAAGATCTTAC
ACGGGACCAGAGGGGAACCTCTGCTGGACGTGGCTTGGCATCCAGTCCGACCCATCATAGCTTCTATCTC
TAGTGGAGTGGTGTCCATTTGGGCCAAAATCAAGTAGAAAATTGGAGTGCATTTGCACCAGACTTCAAA
GAGTTGGATGAAATGTAGAATATGAGGAAAGAGAATCAGAAATTTGATATTGAGGATGAAGATAAGAGTG
AGCCTGAGCAACAGGGGCTGATGCTGCTGAAGATGAGGAAGTGGATGTACCAGCGTGGATCCCATCGC
TGCCTTCTGTAGCAGTGAAGAGCTGGAAGATTCAGAGGCTCTATTGTATTTACCATTTGCCCTGAG
GTAGAAGACCTGAAGAAAACCGTATGGCCCTCCACCGGATGCAGTCCCAAGCTCCTTGATGGATGAAG
GGGCTAGTTTACAGAGAAGAAGAGGAGCTTTCAGCAGATGGGTCCAGCCACCAAGAAAGAAACCTAAAAAC
CACCAATATAGAGCTCAAGGAGTGCCGAATGATGAAGTCCATCCACTACTGGGTGTGAAGGGGGATGGC
AAATCGAAGAAGAAGCAAGCAGGCCGCCCTAAAGGATCAAAGCAGGAGGAGCCATCTCAGAACTGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205771 representing BC057632
 Red=Cloning site Green=Tags(s)

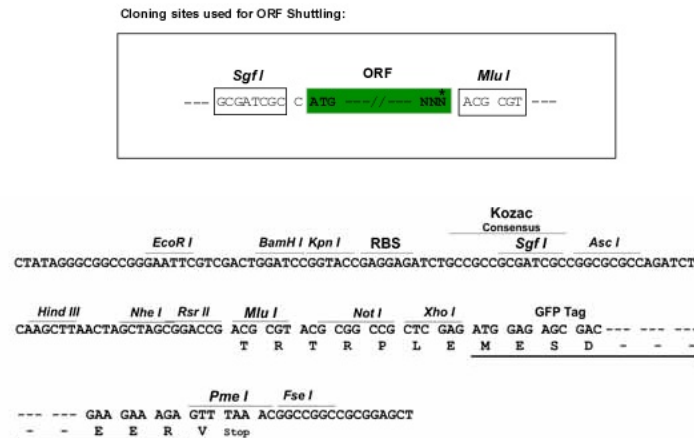
MKSAPVMLTSDSKHVLPVDDSDLNIVVASFDRRGEYIYTGNAKGKILVLKTDSDLVASFRVTTGTSN
 TTAIKSIEFARKGSCFLINTADRIIRVYDGREILTCGRDGEPEPMQKLQDLVNRTPWKKCCFSGDGEYIV
 AGSARQHAIYIWEKSIGNLVKILHGTRGELLDDVAWHPVRPIIASISSGVVSIWAQNQVENWSAFAPDFK
 ELDENVEYEERESEFDIEDDKSEPEQTGADAAEDEEDVTSVDPAAFCSSDEELEDKALLYLPIAPE
 VEDPEENPYGPPPDAPVSSLMDGASSEKKRQSSADGSQPPKKPKTTNIELQGVPNDEVHPLLGVKGDG
 KSKKKQAGRPKGSKAGGAISELL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC057632

ORF Size: 1119 bp

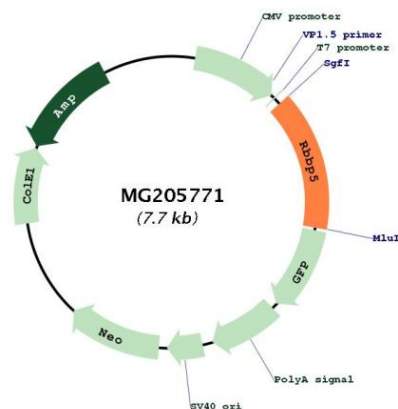
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC057632 , AAH57632
RefSeq Size:	3399 bp
RefSeq ORF:	1121 bp
Locus ID:	213464
Cytogenetics:	1 E4
Gene Summary:	As part of the MLL1/MLL complex, involved in mono-, di- and trimethylation at 'Lys-4' of histone H3. Histone H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. In embryonic stem (ES) cells, plays a crucial role in the differentiation potential, particularly along the neural lineage, regulating gene induction and H3 'Lys-4' methylation at key developmental loci, including that mediated by retinoic acid. Does not affect ES cell self-renewal.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205771