

## Product datasheet for **MG201952**

### Rbpms (BC030397) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rbpms (BC030397) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Rbpms  
**Synonyms:** 2010300K22Rik; 2700019M19Rik; AU017537; hermes; RBP-MS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201952 representing BC030397  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAACGGCGCGCAAAGCCGAGAAGGAGAACACCCCGAGCGAGGCCAACCTTCAGGAGGAGGAGTCC  
 GGACCCTATTTGTCAGCGGTCTGCCTCTGGACATCAAGCCCCGAGAGCTGTACCTGCTCTTCAGACCATT  
 CAAGGGCTATGAAGTTCTCTCATAAAGCTCACATCTAAACAGCCGTAGGCTTTGTCAGTTTTGACAGT  
 CGCTCAGAAGCAGAGGCCGCAAAGAACGCTTTGAACGGCATCCGCTTCGATCCTGAAATCCCGCAAACGC  
 TAGACTAGAGTTTGTCTAAGCAAACACGAAGATGGCCAAGAACAACCTCGTAGGGACTCCAACCCAG  
 TACTCCTCTGCCAACACTGTACCTCAGTTCATTGCCAGGGAGCCATATGAGCTCACAGTACCTGCACTT  
 TACCCAGTAGCCCTGAAGTTTGGGCCCGTACCTCTGTACCCAGCGGAGTTAGCGCCTGCTCTTCCTC  
 CTCTGCGCTTTACCTACCCGCTTCACTGCATGCCAGATGCGCTGGATCCCTCCCTCCGAGGCCAC  
 TTCCAGGGCTGGAAGTCCCGCAGTTCTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201952 representing BC030397  
 Red=Cloning site Green=Tags(s)

MNGGGKAEKENTPSEANLQEEVRTL FVSGPLDIKPRELYLLFRPFKGYEGLIKLTSKQPVGFVSFDS  
 RSEAEAAKNALNGIRFDPEIPQTLRLEFAKANTKMAKNKLVGTPNPSTPLPNTVPQFIAREPYELTVPAL  
 YPSSPEVWAPYPLYPALPPPAFTYPASLHAQMRWIPPSEATSQGWKSRQFC

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

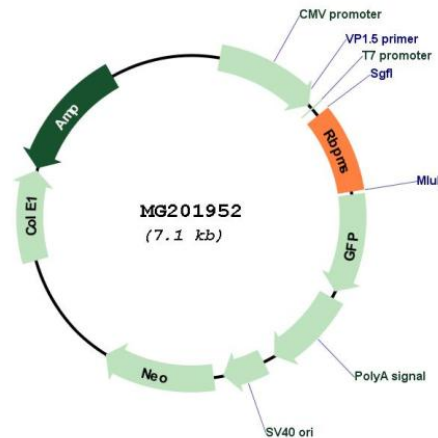


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Cloning Scheme:



Plasmid Map:



ACCN: BC030397

ORF Size: 593 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.

**RefSeq:** [BC030397](#), [AAH30397](#)

**RefSeq Size:** 1124 bp

**RefSeq ORF:** 593 bp

**Locus ID:** 19663

**Cytogenetics:** 8 A4

**Gene Summary:** Acts as a coactivator of transcriptional activity. Required to increase TGFB1/Smad-mediated transactivation. Acts through SMAD2, SMAD3 and SMAD4 to increase transcriptional activity. Increases phosphorylation of SMAD2 and SMAD3 on their C-terminal SSXS motif, possibly through recruitment of TGFBR1. Promotes the nuclear accumulation of SMAD2, SMAD3 and SMAD4 proteins. Binds to poly(A) RNA.[UniProtKB/Swiss-Prot Function]