

## Product datasheet for **MR228435**

### Rbpms (NM\_001042674) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rbpms (NM_001042674) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbpms
Synonyms:	2010300K22Rik; 2700019M19Rik; AU017537; hermes; RBP-MS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228435 representing NM_001042674 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACGGCGCGCAAAGCCGAGAAGGAGAACACCCCGAGCGAGGCCAACCTTCAGGAGGAGGAGTCC  
GGACCCTATTTGTCAGCGGTCTGCCTCTGGACATCAAGCCCCGAGAGCTGTACCTGCTCTTCAGACCATT  
CAAGGGCTATGAAGTTCTCTCATAAAGCTCACATCTAAACAGCCCGTAGGCTTTGTCAGTTTTGACAGT  
CGCTCAGAAGCAGAGGCCGCAAAGAACGCTTTGAACGGCATCCGCTTCGATCCTGAAATCCCGCAAACGC  
TACGACTAGAGTTTGTCTAAGCAAACACGAAGATGGCCAAGAACAACCTCGTAGGGACTCCAACCCAG  
TACTCCTCTGCCAACACTGTACCTCAGTTCATTGCCAGGGAGCCATATGAGCTCACAGTACCTGCACTT  
TACCCAGTAGCCCTGAAGTTTGGGCCCGTACCTCTGTACCCAGCGGAGTTAGCGCCTGCTCTTCCTC  
CTCCTGCCGCTTTCACCTACCCGCTTCACTGCATGCCAGATGCGCTGGATCCCTCCCTCCGAGGCCAC  
TTCCAGGGCTGGAAGTCCCGGCAGTTCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR228435 representing NM_001042674 Red=Cloning site Green=Tags(s)
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MNGGGKAEKENTPSEANLQEEVRTL FVSGPLDIPRELYLLFRPFKGYEGLIKLTSKQPVGFVSFDS  
RSEAEAAKNALNGIRFDPEIPQTLRLEFAKANTKMAKNKLVGTPNPSTPLPNTVPQFIAREPYELTVPAL  
YPSSPEVWAPYPLYPALPPAAFTYPASLHAQMRWIPPSEATSQGWKSRQFC

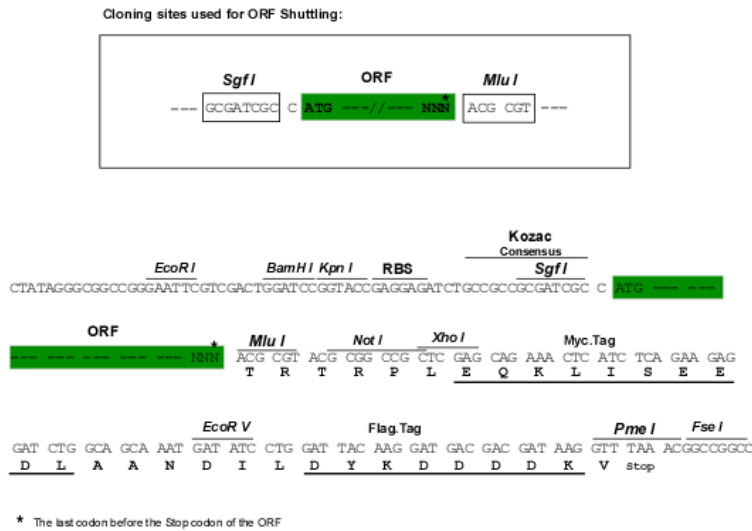
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001042674

**ORF Size:** 591 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:** [NM\\_001042674.2](#), [NP\\_001036139.1](#)

**RefSeq Size:** 2465 bp

**RefSeq ORF:** 594 bp

**Locus ID:** 19663

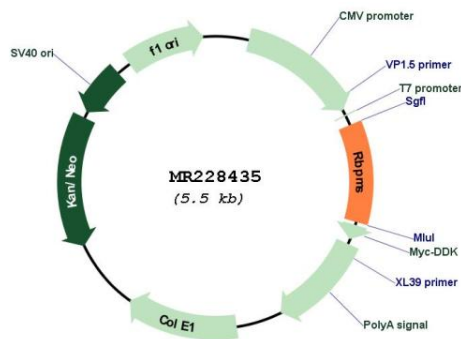
**UniProt ID:** [Q9WVB0](#)

**Cytogenetics:** 8 A4

**MW:** 21.8 kDa

**Gene Summary:** Acts as a coactivator of transcriptional activity. Required to increase TGFβ1/Smad-mediated transactivation. Acts through SMAD2, SMAD3 and SMAD4 to increase transcriptional activity. Increases phosphorylation of SMAD2 and SMAD3 on their C-terminal SXS motif, possibly through recruitment of TGFβR1. Promotes the nuclear accumulation of SMAD2, SMAD3 and SMAD4 proteins. Binds to poly(A) RNA.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR228435