

Product datasheet for **MR220253**

Rbpms (NM_001042675) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rbpms (NM_001042675) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rbpms
Synonyms: 2010300K22Rik; 2700019M19Rik; AU017537; hermes; RBP-MS
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR220253 representing NM_001042675
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAACGGCGCGCAAAGCCGAGAAGGAGAACACCCCGAGCGAGGCCAACCTTCAGGAGGAGGAGTCC
GGACCCTATTTGTCAGCGGTCTGCCTCTGGACATCAAGCCCCGAGAGCTGTACCTGCTCTCAGACCATT
CAAGGGCTATGAAGTTCTCTCATAAAGCTCACATCTAAACAGCCGTAGGCTTTGTGAGTTTGTGACAGT
CGCTCAGAAGCAGAGGCCGCAAAGAACGCTTTGAACGGCATCCGCTTCGATCCTGAAATCCCGCAAACGC
TACGACTAGAGTTTGCTAAGGCAAACACGAAGATGGCCAAAGAACAACCTCGTAGGGACTCCAAACCCGAG
TACTCCTCTGCCAACACTGTACCTCAGTTCATTGCCAGGGAGCCATATGAGCTCACAGTACCTGCACTT
TACCCAGTAGCCCTGAAGTTTGGGCCCGTACCCTCTGTACCCAGCGGAGTTAGCGCCTGCTCTTCCTC
CTCCTGCCGCTTTCACCTACCCGCTTCACTGCATGCCAGTGTCTCTCCAGAGGCAAAGCCCAACAC
ACCTGTCTTTGTCCACTTCTTCAGCAGATTAGATTTGTCTCTGGGAATGTGTTTGTACATATCAACCT
ACTGCAGACCAGCAGAGGGAGTCCCCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220253 representing NM_001042675
Red=Cloning site Green=Tags(s)

MNGGGKAEKENTPSEANLQEEVRTL FVSGPLDIKPRELYLLFRPFKGYEGSLIKLTSKQPVGVSFDS
 RSEAEAAKNALNGIRFDPEIQTLRLEFAKANTKMAKNKLVGTPNPSTPLPNTVPQFIAREPYELTVPAL
 YPSSPEVWAPYPLYPALPALPPAAFTYPASLHAQCF SPEAKPNTPVFCPLLQQIRFVSGNVFVTYQP
 TADQQRELPC

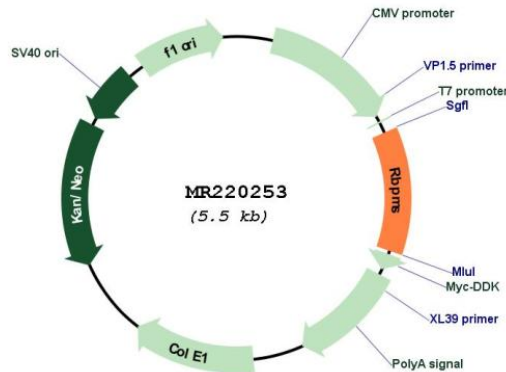
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001042675

ORF Size: 660 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:	<ol style="list-style-type: none">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_001042675.2 , NP_001036140.1
RefSeq Size:	1064 bp
RefSeq ORF:	663 bp
Locus ID:	19663
UniProt ID:	Q9WVB0
Cytogenetics:	8 A4
MW:	24.7 kDa
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]