

Product datasheet for MR228395

Rbpms (NM_001286168) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rbpms (NM_001286168) 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: >MR228395 representing NM_001286168
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAACGGCGCGCAAGCCGAGAAGGAGAACACCCCGAGCGAGGCCAACCTTCAGGAGGAGGTCC
GGACCCTATTTGTCAGCGGTCTGCCTCTGGACATCAAGCCCCGAGAGCTGTACCTGCTCTCAGACCATT
CAAGGGCTATGAAGTTCTCTCATAAAGCTCACATCTAAACAGCCGTAGGCTTTGTGAGTTTTCAGT
CGCTCAGAAGCAGAGGCCGCAAAGAACGCTTTGAACGGCATCCGCTTCGATCCTGAAATCCGCAAACGC
TACGACTAGAGTTTGTAAAGCAAACACGAAGATGGCCAAAGAACAACACTCGTAGGGACTCCAAACCCAG
TACTCCTCTGCCAACACTGTACCTCAGTTCATTGCCAGGGAGCCATATGCGCTGGATCCCTCCCTCCGA
GGCCACTTCCCAGGGCTGGAAGTCCCAGGACTTCTGCTGAGGCTGTGTCTCGGGTGTGTATGGCGGCTG
CAATCTGTCTTGTGGTATTAATGCGGTCTTACTGGTGGCGACTGTCATCCAGCTGTTCTGCAAAACTG
GAGCTTGCTGGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228395 representing NM_001286168
Red=Cloning site Green=Tags(s)

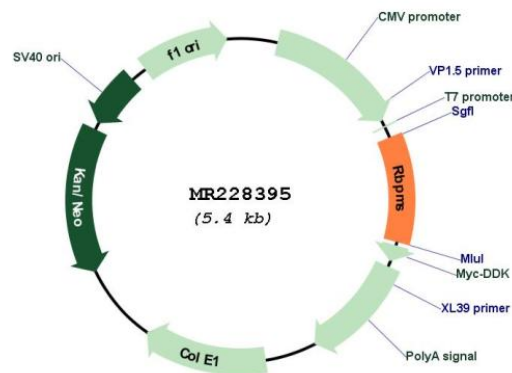
MNGGGKAEKENTPSEANLQEEVRTL FVSGPLDIKPRELYLLFRPFKGYEGSLIKLTSKQPVGFVSFDS
RSEAEAAKNALNGIRFDPEIPQTLRLEFAKANTKMAKNKLVGTPNPSTPLPNTVPQFIAREPYALDPSLR
GHFPGLEVPAVLLRRLCLGCVMAAAICLVGINAVFTGGDCHPAVLQNSLLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001286168

ORF Size: 573 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_001286168.1](#), [NP_001273097.1](#)

RefSeq Size: 2435 bp

RefSeq ORF: 576 bp

Locus ID: 19663

Cytogenetics: 8 A4

MW: 21.2 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]