

## Product datasheet for MR201471

### Cirbp (NM\_007705) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cirbp (NM\_007705) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cirbp  
**Synonyms:** Cirp; R74941  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201471 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCATCAGATGAAGGCAAGCTTTTCGTGGGAGGACTCAGCTTCGACACCAACGAGCAGGCGCTGGAGC  
AGGTCTTCTCCAAGTATGGCAGATCTCCGAAGTGGTGGTAAAGGACAGGGAGACCCAGCGATCCCG  
AGGCTTTGGGTTTGTACCTTTGAAAATATCGATGACGCTAAGGACGCCATGATGGCTATGAATGGGAAG  
TCTGTGGACGGGCGCAGATCAGAGTTGACCAGGCTGGCAAGTCTTCTGACAACCGGTCCCGAGGATACC  
GGGTGGCTCTGCTGGAGGCCGGGCTTTTCCGTGGGGACGAAGCCGGGGCCGAGGGTTCTCCAGAGG  
AGGAGGAGACCGGGCTATGGAGGTGGCCGCTTTGAGTCCCGAGTGGGGTTATGGAGGCTCCAGAGAC  
TACTATGCCAGCCGGAGTCAGGGTGGCAGCTATGGTTATCGGAGCTCGGGAGGGTCTACAGAGACAGCT  
ATGACAGTTATGCTACACACAACGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201471 protein sequence  
Red=Cloning site Green=Tags(s)

MASDEGKLFVGGLSFDTNEQALEQVFSKYGQISEVVVVKDRETQRSRGGFVTFENIDDAKDAMMAMNGK  
SVDGRQIRVDQAGKSSDNRSRGYRGGGAGGRGFRGGRSRGRGFRGGGDRGYGGGRFESRSGGYGGSRD  
YYASRSQGGSYGRSSGGSYRDSYDSYATHNE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_007705

**ORF Size:** 519 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\\_007705.3](#)

**RefSeq Size:** 1256 bp

**RefSeq ORF:** 519 bp

**Locus ID:** 12696

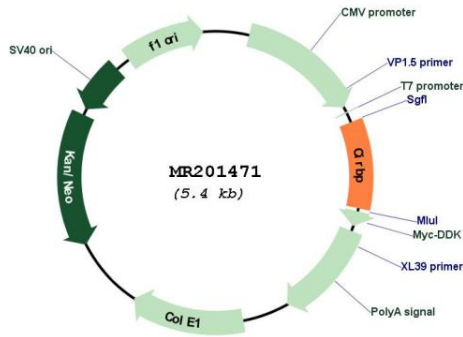
**UniProt ID:** [P60824](#)

**Cytogenetics:** 10 39.72 cM

**MW:** 18.6 kDa

**Gene Summary:** Cold-inducible mRNA binding protein that plays a protective role in the genotoxic stress response by stabilizing transcripts of genes involved in cell survival. Promotes assembly of stress granules (SGs), when overexpressed. Seems to play an essential role in cold-induced suppression of cell proliferation. Acts as a translational repressor. Acts as a translational activator. Binds specifically to the 3'-untranslated regions (3' UTRs) of stress-responsive transcripts RPA2 and TXN.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201471