

## Product datasheet for **MR200230**

### Hbxip (BC028547) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hbxip (BC028547) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Hbxip  
**Synonyms:** 1110003H18Rik; Hbxip; XIP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200230 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCGACTTTGGAGCAGCATTGGAGGACACAATGAAGAATCCATCCATTGTTGGAGTCCTATGCA  
CAGATTCACAAGGACTTAATCTGGGCTGCCGTGGTACCCTGTCGGATGAGCACGCTGGAGTCATATCTGT  
TCTAGCCCAGCAGGCAGCTAGGCTAACCTCTGACCCACCGACATCCCTGTGGTATGTTTAGAATCAGAT  
AATGGGAACATTATGATCCAGAAACACGATGCCATCACAGTGGCTGTGCACAAAATGGCCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200230 protein sequence  
 Red=Cloning site Green=Tags(s)

MEATLEQHLEDTMKNPSIVGLCTDSQGLNLGCRGTLSDHAGVISVLAQQAARLTSDPTDIPVVCLESD  
NGNIMIQQHDGITVAVHKMAS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** BC028547

**ORF Size:** 273 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:** [BC028547](#), [AAH28547](#)

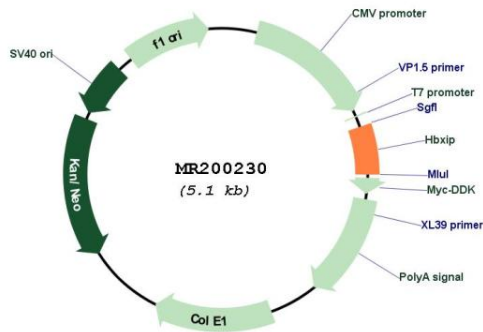
**RefSeq Size:** 735 bp

**RefSeq ORF:** 275 bp

**Locus ID:** 68576  
**Cytogenetics:** 3 F2.3  
**MW:** 9.6 kDa

**Gene Summary:** As part of the Ragulator complex it is involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator functions as a guanine nucleotide exchange factor activating the small GTPases Rag. Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated. When complexed to BIRC5, interferes with apoptosome assembly, preventing recruitment of pro-caspase-9 to oligomerized APAF1, thereby selectively suppressing apoptosis initiated via the mitochondrial/cytochrome c pathway (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR200230