

Product datasheet for **MG200230**

Hbxip (BC028547) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hbxip (BC028547) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hbxip
Synonyms: 1110003H18Rik; Hbxip; XIP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200230 representing BC028547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGCGACTTTGGAGCAGCATTGGAGGACACAATGAAGAATCCATCCATTGTTGGAGTCCTATGCA
 CAGATTCACAAGGACTTAATCTGGGCTGCCGTGGTACCCTGTCGGATGAGCACGCTGGAGTCATATCTGT
 TCTAGCCCAGCAGGCAGCTAGGCTAACCTCTGACCCACCGACATCCCTGTGGTATGTTTAGAATCAGAT
 AATGGGAACATTATGATCCAGAAACACGATGGCATCACAGTGGCTGTGCACAAAATGGCCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200230 representing BC028547
 Red=Cloning site Green=Tags(s)
 MEATLEQHLEDTMKNPSIVGLCTDSQGLNLGCRGTLSDHAGVISVLAQQAARLTSPTDIPVVCLESD
 NGNIMIQKHDGITVAVHKMAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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:	BC028547 , AAH28547
RefSeq Size:	735 bp
RefSeq ORF:	275 bp
Locus ID:	68576
Cytogenetics:	3 F2.3
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]