

## Product datasheet for **MR208277**

### **Hbp1 (NM\_153198) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hbp1 (NM_153198) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hbp1
Synonyms:	1700058O05Rik; BE629963; C86454; C330012F01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208277 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGTGGGAAGTGAAGACAAATCAGATGCCTAATGCAGTACAGAACTCCTGCTGGTATGGACAAGA  
 GAGCACCAAGGATGAGTACTCGCTGGAGTTGCTGCAGTGAATGAGAATTTGCCATCCTCTCCAGGATA  
 CAACTCCTGTGATGAGCATGGAGCTTGTGACCTTCCTGAACTTCAGGCTGTTCAAAGTGACCCCTACC  
 CAATCTGCCATATACCAGCTAAGTTCAGATGTATCTCATCAAGAAATCCAAAGATCATCTTGAGCCAGA  
 ATACCTCAGATATACCGGAAAATACTCACCGTGAAGATGAGGTGGACTGGCTAACAGAGTTAGCAAATAT  
 TGCCACTAGTCCACAAAGTCCCCTGATGCAGTGCCTATTTATAACAGATCATCTCTGTACACATCATA  
 GCTACTAGCAAAAGTTTACATTCCTATGCACGCCACCACAGTGCCTCTTCTTCAAAAAGTGGCCAG  
 CCTTCCCTCATGACCACTGGAAGGAAGAAACACAGTAAGACATGAAAGGGCAAACAGTGAGTCAGAGTC  
 AGGCATTTTCTGTATGTCTCCCTGTGATGATGATCTGGGCTGGTCAATTCCTGGCCATCCACC  
 ATTTGGCACTGCTTTCTGAAAGGCACGGCTGTGCTTCCATAAGGAAAGCAATAAGGAATGGCAAGATG  
 TGAAGACTTTGCTAGAGCCGCCAGCTGTGATAATGAGGAAGAGATCCAATGGGCACTCACAAAGGCTA  
 TGGGTCTGATGGTCTAAAGTTGTTATCCATGAAGAGAGTGTGTCATTCGGTGAGTCTGACTGAAGTTG  
 ACATTTGATCCTGGTACAGTAGAAGATGGCTTGCTCACTGTAGAGTGCAAGCTGGACCACCCCTTTCTATG  
 TAAAAATAAAGGTTGGTCGTCATTTTATCCAAGCTTGACTGTGGTACAGCATGGCATTCCATGTTGTGA  
 AATTCATATTGGTGACGTATGTCTACCTCCTGGACCCCTGATGCCATTAATTTTCGATGATTGAGTGTG  
 TTTGATACATTTAAAAGCTATGACTTCACACCTATGGACTCTTCTGCGGTCTATGTTTGGATGATGA  
 CTCGTGACGCGCGTGCATCTCTGCTTGTGGAGGAGACCTGGTACTGGTCAAGAGTTTTCGGGATCTGA  
 ATTCAGTAAAAGCTGTGGTTACCTGGATCATCACAGCTCTTCTAGTCTTTGTATGCTAAAAGCTGTC  
 AAAAGCCACAGCTCAGGGACTGTGAGTGCCACTTCTCCTAATAAGTGCAAAAAGCCAATGAATGCCTTCA  
 TGCTTTTTGCCAAAAATACAGAGTTGAATATACTCAGATGTATCCAGGAAAAGATAACAGAGCCATAAG  
 TGTGATCCTTGGTGACAGGTGAAAAAAATGAAGAACGAAGAAAGGAGGATGTACACATTAGAAGCAAAG  
 GCTTTGGCTGAAGAACAAAAGCGTTTAAATCCTGACTGTTGAAAAGGAAAAGAACCACTCAGGCTCTC  
 AACAGCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208277 protein sequence  
 Red=Cloning site Green=Tags(s)

MVWEVKTNQMPNAVQKLLLVMKRAPGMSDSLLELLQCNENLPSSPGYNSCDEHMELELDELPELQAVQSDPT  
 QSAIYQLSSDVSHQEYPRSSWSQNTSDIPENTHREDEVDWLTELANIATSPQSPLMQCSFYNRSSPVHII  
 ATSKSLHSYARPPPVSSSKSGPAFPHDHWKEETPVRHERANSESESGIFCMSSLSDDDDLGWCNSWPST  
 IWHCFKLGTRLCFHKESNKEWQDVEDFARAASCDNEEIQMGTHKGYGSDGLKLLSHEESVSFSGESVLKLL  
 TFDPGTVEDGLL TVECKLDHPFYVKNKGWSSFYPSLTVVQHGIPCCIEIHIGDVCLPPGHPDAINFDDSGV  
 FDTFKSYDFTPMDS SAVYVLSMARQRASLSCGGPGTGQEFSGSEFSKSCGSPGSSQLSSSSLYAKAV  
 KSHSSGTVSATSPNKCKRPMNAFMLFAKKYRVEYTMYPGKDNRAISVILGDRWKKMKNEERMYTLEAK  
 ALAEEQKRLNPDCWKRKRRTNSGSQQH

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_153198

**ORF Size:** 1551 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\\_153198.2](#), [NP\\_694878.2](#)

**RefSeq Size:** 2941 bp

**RefSeq ORF:** 1581 bp

**Locus ID:** 73389

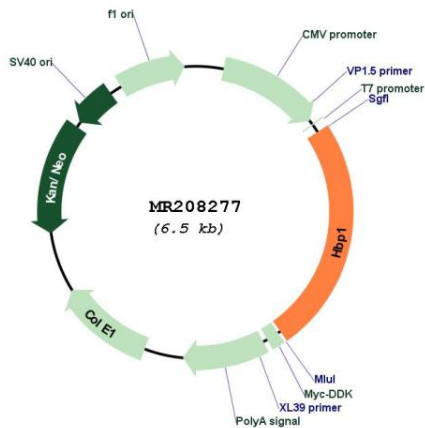
**UniProt ID:** [Q8R316](#)

**Cytogenetics:** 12 A3

**MW:** 57.6 kDa

**Gene Summary:** Transcriptional repressor that binds to the promoter region of target genes. Plays a role in the regulation of the cell cycle and of the Wnt pathway. Binds preferentially to the sequence 5'-TTCATTCATTCA-3'. Binding to the H1F0 promoter is enhanced by interaction with RB1. Disrupts the interaction between DNA and TCF4 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208277