

Product datasheet for **MR224494**

Hbp1 (NM_177993) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hbp1 (NM_177993) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hbp1
Synonyms:	1700058O05Rik; BE629963; C86454; C330012F01Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR224494 representing NM_177993
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGACGGTTTGTCTGGAGCACCATAACATGGTGTGGGAAGTGAAGACAAATCAGATGCCTAATGCAG
 TACAGAACTCCTGCTGGTATGGACAAGAGAGCACAGGGATGAGTGACTCGCTGGAGTTGCTGCAGTG
 TAATGAGAATTTGCCATCCTCTCCAGGATACAACCTCTGTGATGAGCACATGGAGCTTGATGACCTTCT
 GAACCTCAGGCTGTTCAAAGTGACCCTACCCAATCTGCCATATACCAGCTAAGTTCAGATGTATCTCATC
 AAGAATATCCAAGATCATCTGGAGCCAGAATACCTCAGATATACCGAAAAATACTACCGTGAAGATGA
 GGTGGACTGGCTAACAGAGTTAGCAAATATTGCCACTAGTCCACAAAGTCCCCTGATGCAGTGCTCATT
 TATAACAGATCATCTCTGTACACATCATAGCTACTAGCAAAGTTTACATTCTATGCACGCCACCAC
 CAGTGTCTCTTTCAAAGTGGGCCAGCCTCCCTCATGACCACTGGAAGGAAGAAACACCAGTAAG
 ACATGAAAGGGCAAACAGTGAGTCAGAGTCAGGCATTTTCTGTATGTCCCTGTCAGATGATGATGAT
 CTGGGCTGGTGAATTCCTGGCCATCCACCATTTGGCACTGCTTTCTGAAAGGCACGCGGCTGTGCTTCC
 ATAAGGAAAGCAATAAGGAATGGCAAGATGTGGAAGACTTTGCTAGAGCCGCCAGCTGTGATAATGAGGA
 AGAGATCCAAATGGGCACTCACAAAGGCTATGGGTCTGATGGTCTAAAGTTGTTATCCCATGAAGAGAGT
 GTGTCAATTCGGTGAAGTCTGACTGAAGTTGACATTTGATCCTGGTACAGTAGAAGATGGCTTGTCTACTG
 TAGAGTGAAGCTGGACCACCTTTCTATGTTAAAAATAAAGGTTGGTCGTCATTTTATCCAAGCTTGAC
 TGTGGTACAGCATGGCATTCCATGTTGTGAAATTCATATTGGTGACGATGTCTACCTCCTGGACACCT
 GATGCCATTAATTTTCGATGATTCAGGTGTTTTTGATACATTTAAAGCTATGACTTCACACCTATGGACT
 CTTCTGCGGTCTATGTTTTGAGTAGTATGGCTCGTCAGCGCCGTCATCTCTGCTTGTGGAGGAGGACC
 TGGTACTGGTCAAGAGTTTTTCGGGATCTGAATTCAGTAAAAGCTGTGGTTACCTGGATCATCACAGCTC
 TCTTCTAGTTCTTTGTATGCTAAAGCTGTCAAAGCCACAGCTCAGGGACTGTGAGTGCCACTTCTCCTA
 ATAAGTGCAAAGACCAATGAATGCCTTCATGCTTTTGGCAAAAAATACAGAGTTGAATATACTCAGAT
 GTATCCAGGAAAGATAACAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224494 representing NM_177993
 Red=Cloning site Green=Tags(s)

MATGLSEHHNMVWEVKTNPNAVQKLLLVMKRAPGMSDSLELLQCENLNPSSPGYNSCDEHMELDDL
 ELQAVQSDPTQSAIYQLSSDVSHQEYPRSSWSQNTSDIPENTHREDEVDWLTELANIATSPQSPLMQCSF
 YNRSSPVHIIATSKSLHSYARPPPVSSSSKSGPAFPHDHWKEETPVRHERANSESESGIFCMSSLSDDDD
 LGWCNSWPSTIWHCFKLGTRLCFHKESNKEWQDVEDFARAASCDNEEIQMGTHKGYGSDGLKLLSHEES
 VSFGESVLKLTDFDPGTVEDGLL TVECKLDHPFYVKNKGWSFYPSLTVVQHGI PCCEIHIIGDVCLPPGHP
 DAINFDSSGVFDTFKSYDFTPMDS SAVYVLSMARQRRASLSCGGPGTGQEFSGSEFSKSCGSPGSSQL
 SSSSLYAKAVKSHSSGTVSATSPNKCKRPMNAFMLFAKKYRVEYTMYPGKDNR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

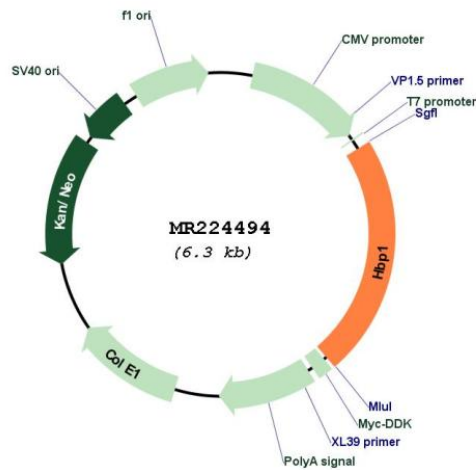
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_177993

ORF Size:

1422 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_177993.4](#)

RefSeq Size: 3045 bp

RefSeq ORF: 1425 bp

Locus ID: 73389

UniProt ID: [Q8R316](#)

Cytogenetics: 12 A3

MW: 53 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]