

Product datasheet for **RC202260**

HBP1 (NM_012257) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HBP1 (NM_012257) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202260 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGTGGGAAGTGAAGACAAATCAGATGCCTAATGCAGTACAGAACTCCTGTTGGTGTATGGACAAGA
 GAGCCTCAGGAATGAATGACTCATTGGAGTTGCTGCAGTGAATGAGAATTTGCCATCTTACCTGGATA
 TAACTCCTGTGATGAACACATGGAGCTTGTGACCTTCTGAACCTCAGGCAGTTCAAAGTGATCCTACC
 CAATCTGGCATGTACCAGCTGAGTTCAGATGTTTCACATCAAGAAATACCCAAGATCATCTTGAACCAAA
 ATACCTCAGACATACCAGAACTACTTACCGTAAAAATGAGGTGGACTGGCTAACAGAATTGGCAAAATAT
 CGCGACCAGTCCACAAAGTCCACTGATGCAGTGCCTATTTACAATAGATCATCTCCTGTACACATCATA
 GCCACTAGCAAAAGTTTACATTCCTATGCACGCCCTCCACCAGTGCCTTCTTTCGAAGAGTGAACCGAG
 CCTTCCCTCATCACCATTGGAAGGAGGAAACACCAGTAAGACATGAAAGGGCAAAATAGTGAGTCAAGATC
 TGGCATTTTCTGCATGTCTCCCTGTGATGATGATTTGGGATGGTCAATTCTTGGCCTTCAACT
 GTCTGGCACTGTTTTTGAAGGCACACGACTGTGCTTTCATAAGGGAAGCAATAAGGAATTGGCAAGATG
 TTGAAGATTTTGTAGAGCTGAAGGCTGTGATAATGAGGAAGATCTTCAATGGGCATTCACAAGGGCTA
 TGGTTCTGATGGTCTAAAGTTGTTATCACATGAAGAAAGTGTATCATTGGCGAGTCTGACTGAAGTTG
 ACTTTTGTCTGGTACAGTAGAAGATGGTTTACTTACCGTAGAGTGAAGCTGGACCACCTTTCTATG
 TAAAAATAAAGGTTGGTCATCATTTTTATCAAGCTTGACTGTGGTACAGCATGGCATTCCATGTTGTGA
 AGTTTATATTGGCGATGTATGTCTACCTCCTGGACACCCCGATGCCATTAATTTTGTAGATTGAGGTT
 TTTGATACATTTAAAAGCTATGACTTACACCTATGGATTCTTCTGCAGTTTATGTGTTAAGTAGTATGG
 CTCGCCAGCGTCTGCATCTTTGTCTTGTGGAGGACCTGGTGGTCAAGACTTTGCAAGACTGGATTGAG
 TAAAAACTGTGGCTCACCTGGATCATCACAGCTCTCTTCCAATCTTTGTATGCTAAAGCTGTCAAAAAC
 CACAGCTCAGGGACTGTGAGTGCCACTTCTCTAATAAGTGCAAAAAGACCAATGAATGCCTTCATGCTTT
 TTGCCAAAAAATACAGAGTTGAATATACTCAGATGTATCCAGGAAAGATAACAGAGCCATAAGTGTGAT
 CCTTGGTGACAGGTGGAAGAAAATGAAGAATGAAGAGAGAAGAATGTACACATTAGAAGCAAAAGGCTTTG
 GCTGAAGAACAGAAACGTTTAAATCCTGACTGTTGGAAGAGGAAAGAACCAATTCAGGCTCACAAAC
 AT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202260 protein sequence
 Red=Cloning site Green=Tags(s)

MVWEVKTNQMPNAVQKLLL VMDKRASGMNDSLELLQCNENLPSSPGYNSCDEHME LDDLPELQAVQSDPT
 QSGMYQLSSDVSHQEYPRSSWNQNTSDIPETTYRENEVDWL TELANIATSPQSPLMQCSFYNRSSPVHII
 ATSKSLHSYARPPPVS SSKSEPAFPHHHWKEETPVRHERANSESESGIFCMSSLSDDDDLGWCNSWPST
 VWHCF LKGR LCFHKGSNKEWQDVEDFARAEGCDNEEDLQMGIIHKGYGSDGLKLLSHEESVSFGE SVLKL
 TFDPGTVEDGLL TVECKLDHPFYVKNKGWSSFYPSLTVVQHGIPCEVHIGDVCLPPGHPDAINFDDSGV
 FDTFKSYDFTPMDS SAVVYVLSMARQRRASLSCGGPGGQDFARSGFSKNCGSPGSSQLSSNSLYAKAVKN
 HSSGTVSATSPNKCKRPMNAFMLFAKKYRVEYTMYPGKDNRAISVILGDRWKKMKNEERRMYTLEAKAL
 AEEQKRLNPDCWKRKRRTNSGSQQH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6195_d03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_012257

ORF Size: 1542 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_012257.2](#)

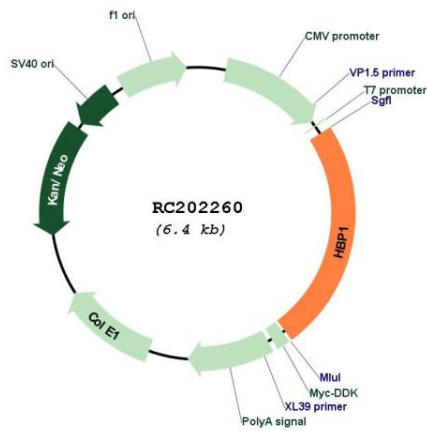
RefSeq Size: 2858 bp

RefSeq ORF: 1545 bp

Locus ID: 26959

UniProt ID: [O60381](#)
Cytogenetics: 7q22.3
Domains: HMG, AXH
Protein Families: Transcription Factors
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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC202260