

## Product datasheet for **RG234354**

### **HBP1 (NM\_001244262) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HBP1 (NM_001244262) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234354 representing NM\_001244262  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGACGGTTTGTCTCAGAGCACCATAACATGGTGTGGGAAGTGAAGACAAATCAGATGCCTAATGCAG  
 TACAGAACTCCTGTTGGTGATGGACAAGAGAGCCTCAGGAATGAATGACTCATTGGAGTTGCTGCAGTG  
 TAATGAGAATTTGCCATCTTACCTGGATATAACTCCTGTGATGAACACATGGAGCTTGATGACCTTCT  
 GAACCTCAGGCAGTTCAAAGTGATCCTACCCAATCTGGCATGTACCAGCTGAGTTCAGATGTTTCACATC  
 AAGAATACCCAAGATCATCTTGGAAACAAAATACCTCAGACATACCAGAACTACTTACCGTGAAAATGA  
 GGTGGACTGGCTAACAGAATTGGCAAATATCGCGACCAGTCCACAAGTCCACTGATGCAGTGCTCATT  
 TACAATAGATCATCTCCTGTACACATCATAGCCACTAGCAAAGTTTACATTCTATGCACGCCCTCCAC  
 CAGTGTCTCTTCTCGAAGAGTGAACCAGCCTCCCTCATCACCATTGGAAGGAGGAAACACCAGTAAG  
 ACACGAAAGGCAAATAGTGAGTCAGAATCTGGCATTCTTCTGCATGTCTCCCTGTCAGATGATGATGAT  
 TTGGGATGGTGAATTCCTGGCCTCAACTGTCTGGCACTGTTTTTTGAAAGGCACACGACTGTGCTTTC  
 ATAAGGAAGCAATAAGGAATGGCAAGATGTTGAAGATTTTGTAGAGCTGAAGGCTGTGATAATGAGGA  
 AGATCTTCAAATGGGCATTACAAAGGGCTATGGTTCTGATGGTCTAAAGTTGTTATCACATGAAGAAAGT  
 GTATCATTTGGCGAGTCTGTACTGAAGTTGACTTTTGTCTGGTACAGTAGAAGATGGTTTACTTACCG  
 TAGAGTGAAGCTGGACCACCTTTCTATGTTAAAAATAAAGGTTGGTCATCATTTTATCCAAGCTTGAC  
 TGTGGTACAGCATGGCATTCCATGTTGTGAAGTTCATATTGGCGATGTATGTCTACCTCCTGGACACCC  
 GATGCCATTAATTTTGTGATTAGTATGGCTCGCCAGCGTCTGCATCTTTGTCTTGTGGAGGACCTGG  
 CTCTGCGAGTTTATGTGTTAAGTAGTATGGCTCGCCAGCGTCTGCATCTTTGTCTTGTGGAGGACCTGG  
 TGGTCAAGACTTTGCAAGATCTGGATTTCAGTAAAAACTGTGGCTACCTGGATCATCACAGCTCTCTCC  
 AATTCTTTGTATGCTAAAGCTGTCAAAAACCACAGCTCAGGGACTGTGAGTGCCACTTCTCCTAATAAGT  
 GCAAAAAGACCAATGAATGCCTTCATGCTTTTTGCAAAAAATACAGAGTTGAATATACTCAGATGTATCC  
 AGGGAAAGATAACAGAGCCATAAGTGTGATCCTTGGTGCAGGTGGAAGAAAATGAAGAATGAAGAGAGA  
 AGAATGTACACATTAGAAGCAAAGGCTTTGGCTGAAGAACAGAAACGTTTAAATCCTGACTGTTGGAAGA  
 GGAAAAGAACCAATTCAGGCTCACAAACAT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG234354 representing NM\_001244262  
 Red=Cloning site Green=Tags(s)

MATGLSEHHNMVWEVKTNQMPNAVQKLLLVMKDRASGMNDSLELLQCENLPSPPGYNSCDEHMELEDDLP  
 ELQAVQSDPTQSGMYQLSSDVSHQEYPRSSWNQNTSDIPETTYRENEVDWLTELANIATSPQSPLMQCSF  
 YNRSSPVHIIATSKSLHSYARPPPVSSSKSEPAFPHHHWKEETPVRRHERANSESESGIFCMSSLSDDDD  
 LGWCNSWPSTVWHCFKLGTRLCFHKGSNKEWQDVEDFARAEGCDNEEDLQMGIIHKGYGSDGLKLLSHEES  
 VSFGESVLKLTDFDPTVEDGLLTVCKLDHPFYVKNKGWSSFYPSLTVVQHGIPCEVHIGDVCLPPGHP  
 DAINFDDSGVFDTFKSYDFTPMDS SAVYVLSMARQRRASLSCGGPGGQDFARSFGSKNCGSPGSSQLSS  
 NSLYAKAVKNHSSGTVSATSPNKCKRPMNAFMLFAKKYRVEYTMYPGKDNRAISVILGDRWKMKMNEER  
 RMYTLEAKALAEQKRLNPDCWKRKRRTNSGSQQH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001244262

**ORF Size:** 1572 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\\_001244262.1](#), [NP\\_001231191.1](#)

**RefSeq Size:** 2749 bp

**RefSeq ORF:** 1575 bp

**Locus ID:** 26959

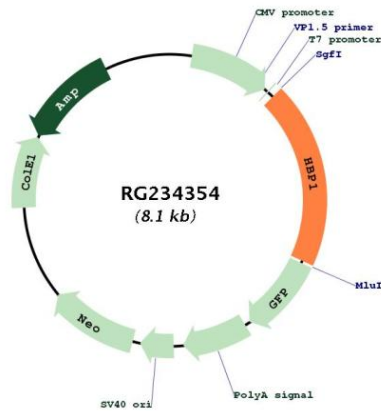
**UniProt ID:** [O60381](#)

**Cytogenetics:** 7q22.3

**Protein Families:** Transcription Factors

**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 RG234354