

## Product datasheet for **MG200989**

### Hbb (BC032264) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hbb (BC032264) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Hbb  
**Synonyms:** AI036344; beta2; Hbb2; Hbbt2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200989 representing BC032264  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTGCACCTGACTGATGCTGAGAAGTCTGCTGTCTCTTGCCTGTGGCAAAGGTGAACCCCGATGCAA  
 TTGGTGGTGAGGCCCTGGGCAGGCTGCTGGTTGTCTACCCTTGGACCCAGCGGTACTTTGATAGCTTTGG  
 AGACCTATCCTCTGCCTCTGCTATCATGGGTAATCCCAAGGTGAAGGCCCATGGCAAAAAGGTGATAACT  
 GCCTTTAACGAGGGCCTGAAAACTGGACAACCTCAAGGGCACCTTTGCCAGCCTCAGTGAGCTCCACT  
 GTGACAAGCTGCATGTGGATCCTGAGAACTTCAGGCTCCTGGCAATGCGATCGTGATTGTGCTGGCCA  
 CCACCTGGCAAGGATTCACCCCGCTGCACAGGCTGCCTTCCAGAAGGTGGTGGCTGGAGTGGCCACT  
 GCCTGGCTCACAAGTACCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200989 representing BC032264  
 Red=Cloning site Green=Tags(s)

MVHLTDAEKSAVSCLWAKVNPDAIGGEALGRLLVYYPWTQRYFDSFGDLSSASAIMGNPKVKAHGKVVIT  
 AFNEGLKNLDNLKGFASLSELHCDKLVDPENFRLLGNAIVIVLGHHLGKDFTPAAQAQFQKVAVAGVAT  
 ALAHKYH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>BC032264</u> , <u>AAH32264</u>
<b>RefSeq Size:</b>	634 bp
<b>RefSeq ORF:</b>	443 bp
<b>Locus ID:</b>	15130
<b>Cytogenetics:</b>	7 54.85 cM
<b>Gene Summary:</b>	<p>This gene encodes a beta polypeptide chain found in adult hemoglobin, which consists of a tetramer of two alpha chains and two beta chains, and which functions in the transport of oxygen to various peripheral tissues. This gene is one of a cluster of beta-hemoglobin genes that are distally regulated by a locus control region, and which are organized along the chromosome in the order of their developmental expression. In mouse, two major strain-specific haplotypes of the beta-globin gene cluster are found - a "single" haplotype found in C57BL/-type strains, which includes two highly similar adult beta-globin genes, beta s and beta t, and a "diffuse" haplotype found in strains such as BALB/c and 129Sv, which includes two somewhat diverse adult beta-globin genes, beta-major and beta-minor. This gene represents the beta-minor adult gene found in the "diffuse" haplotype. Primary chromosome 7 of the mouse reference genome assembly, which is derived from C57BL/6 strain mice, represents the "single" haplotype, while the "diffuse" haplotype is represented in the reference genome collection by the BALB/c strain alternate contig, NT_095534.1. [provided by RefSeq, May 2013]</p>