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Product datasheet for MC202245

Hbb-b2 (NM_016956) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hbb-b2 (NM_016956) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hbb-b2
Synonyms:	AI036344; beta2; Hbb2; Hbbt2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC027434 sequence for NM_016956 GTTGTGTTGACTTGCAACTTCAGAAACAGACATCATGGTGCACCTGACTGATGCTGAGAAGTCTGCTGTC TCTTGCCTGTGGGCAAAGGTGAACCCCGATGAAGTTGGTGGTGAGGCCCTGGGCAGGCTGCTGGTTGTCT ACCCTTGGACCCAGCGGTACTTTGATAGCTTTGGAGACCTATCCTCTGCCTCTGCTATCATGGGTAATCC CAAGGTGAAGGCCCATGGCAAAAAGGTGATAACTGCCTTTAACGAGGGCCTGAAAAACCTGGACAACCTC AAGGGCACCTTTGCCAGCCTCAGTGAGCTCCACTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAGGC TCCTGGGCAATGCGATCGTGATTGTGCTGGGCCACCACCTGGGCAAGGATTTCACCCCTGCTGCACAGGC TGCCTTCCAGAAGGTGGTGGCTGGAGTGGCCACTGCCCTGGCTCACAAGTACCACTAAGCCCCTTTTCTG CTATTGTCTATGCACAAAGGTTATATGTCCCCTAGAGAAAAACTGTCAAGTGTGGGGAAATGATGAAGAC CTTTGGGCATCTAGCTTTTATCTAATAAATGATATTTACTGTCATCTCAAAAAAAAAAAAAAAAAAAAAA AA
Restriction Sites:	RsrII-NotI
ACCN:	NM_016956
Insert Size:	444 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).

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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: BC027434, AAH27434

RefSeq Size: 632 bp

RefSeq ORF: 444 bp

Locus ID: 15130

UniProt ID: P02089

Cytogenetics: 7 54.85 cM

Gene Summary: 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]