

## Product datasheet for **SC122708**

### HBZ (NM\_005332) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HBZ (NM_005332) Human Untagged Clone
Tag:	Tag Free
Symbol:	HBZ
Synonyms:	HBAZ; HBZ-T1; HBZ1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_005332 edited GGCCCAACTCCAGTGCAGCTGCCACCCCTGCCGCCATGTCTCTGACCAAGACTGAGAGGA CCATCATTGTGTCCATGTGGCCAAGATCTCCACGCAGGCCGACACCATCGGCACCGAGA CTCTGGAGAGGCTCTTCCCTCAGCCACCCGACACCAAGACCTACTTCCCGCACTTCGACC TGCAACCCGGGGTCCGCGCAGTTGCGCGCGCACGGCTCCAAGGTGGTGGCCGCCGTGGGCG ACGCGGTGAAGAGCATCGACGACATCGGCGGCGCCCTGTCCAAGCTGAGCGAGCTGCACG CCTACATCCTGCGCGTGGACCCGGTCAACTTCAAGCTCCTGTCCCACTGCCTGCTGGTCA CCCTGGCCGCGCGCTTCCCGCCGACTTCACGGCCGAGGCCACGCCGCTGGGACAAGT TCCTATCGGTCGTATCCTCTGTCTGACCGAGAAGTACCGCTGAGCGCCGCTCCGGGAC CCCCAGGACAGGCTGCGGCCCTCCCCGTCCTGGAGGTTCCCCAGCCCCACTTACCGCG TAATGCGCCAATAAACCAATGAACGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005332 unedited NNGGGGTTTGGATTTGTATACGATCATATAGGCGGCCGCGATTCCC GGTTGGCCCAACTC CGTGCAGCTGCCACCCTGCCGCTGTCTCTGACCAAGACTGAGAGGACCATCATTGTGT CCATGTGGGCCAAGATCTCCACGCAGGCCGACACCATCGGCACCGAGACTCTGGAGAGGC TCTTCCTCAGCCACCCGACACCAAGACCTACTCCC GCACTTCGACCTGCACCCGGGGT CCGCGCAGTTGCGCGCGCACGGCTCCAAGTGGTGGCCGCCGTGGCGACGCGGTGAAGA GCATCGACGACATCGGCGGCGCCCTGTCCAAGCTGAGCGAGCTGCACGCCTACATCCTGC GGTGGACCCGGTCAACTTCAAGCTCCTGTCCACTGCCTGCTGGTACCCTGGCCGCGC GTTCCCCGCGGACTTACGCGCCGAGGCCACGCGCCTGGGACAAGTTCCTATCGGTGC TATCCTCTGTCTGACCGAGAAGTACCGCTGAGCGCCGCTCCGGGACCCCAAGGACAGG CTGCGGCCCTCCCCGTCCTGGAGTTCCCCAGCCCCACTTACCGCGTAATGCGCCAAT AAACCAATGAACGNNAANAAAAANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAGGCGCGCCGNGTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGAC CCCTCCCAGTGCCTCTCTGGCCCTGAAAAGTGCCTCCAGTGGCCACCAGCCCTGTCC TAATAAATNAAGGTGCATCATTTTGTCTGACTGGTGTCCCTCTATAATATAATGGTGGAG GGGGTGGGATGGAGCAAGGGCAAATTGGGAAACAAACCGGAGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005332
<b>Insert Size:</b>	617 bp
<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_005332.2</a> , <a href="#">NP_005323.1</a>
<b>RefSeq Size:</b>	589 bp
<b>RefSeq ORF:</b>	429 bp
<b>Locus ID:</b>	3050
<b>UniProt ID:</b>	<a href="#">P02008</a>
<b>Cytogenetics:</b>	16p13.3
<b>Protein Families:</b>	Embryonic stem cells, ES Cell Differentiation/IPS

**Gene Summary:**

Zeta-globin is an alpha-like hemoglobin. The zeta-globin polypeptide is synthesized in the yolk sac of the early embryo, while alpha-globin is produced throughout fetal and adult life. The zeta-globin gene is a member of the human alpha-globin gene cluster that includes five functional genes and two pseudogenes. The order of genes is: 5' - zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta1 - 3'. [provided by RefSeq, Nov 2009]