

Product datasheet for **SC110916**

hemoglobin subunit gamma 1 (HBG1) (NM_000559) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hemoglobin subunit gamma 1 (HBG1) (NM_000559) Human Untagged Clone
Tag:	Tag Free
Symbol:	hemoglobin subunit gamma 1
Synonyms:	HBG-T2; HBGA; HBGR; HSGGL1; PRO2979
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000559, the custom clone sequence may differ by one or more nucleotides

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ATGGGTCATTTACAGAGGAGGACAAGGCTACTATCACAAAGCCTGTGGGCAAGGTGAATGTGGAAGATG
CTGGAGGAGAAACCCTGGGAAGGCTCCTGGTTGTCTACCCATGGACCCAGAGTTCTTTGACAGCTTTGG
CAACCTGTCTCTGCCTCTGCCATCATGGGCAACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACT
TCCTTGGGAGATGCCACAAAGCACCTGGATGATCTCAAGGGCACCTTTGCCAGCTGAGTGAAGTGCCT
GTGACAAGCTGCATGTGGATCCTGAGAAGTCAAGCTCCTGGGAAATGTGCTGGTACCCTTTTGGCAAT
CCATTTGGCAAGAATTCACCCCTGAGGTGCAGGCTTCTGGCAGAAGATGGTACTGCAGTGGCCAGT
GCCCTGCCTCCAGATACCACTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000559 unedited</p> <pre>GGGTCCACATTTGTATACGACTCACTATAGGCGCCGCGATTTCGGCACGAGGGAACGTCT GAGGTTATCAATAAGCTCCTAGTCCAGACGCCATGGGTCAATTCACAGAGGAGGACAAGG CTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGAAGATGCTGGAGGAGAAACCCTGG GAAGGCTCCTGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGT CCTCTGCCTCTGCCATCATGGGCAACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGA CTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCAAGGGCACCTTTGCCAGCTGA GTGAACCTGCACTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGGGAAATG TGCTGGTGACCGTTTTGGCAATCCATTTTCGGCAAAGAATTCACCCCTGAGGTGCAGGCTT CCTGGCAGAAGATGGTACTGGAGTGGCCAGTGCCTGTCTCCAGATACCACTGAGCTC ACTGCCCATGATGCAGAGCTTTCAAGGATAGGCTTTATTCTGCAAGCAATCAAATAATAA ATCTATTCTGCTAAGAGATCAAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGC GGTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCCAGTGCC TCTCCTGGCCCTGAAAAGTGCCACTCCAGTGCCACCAGCCTTGCTTAATAAAATTAAG TTGCATCATTTTGTCTGACTAGGTGTCCTTCTATAATATATGGGGTGAGGGGGTGGGGTT TGGACCAGGGGCCAATTGAAAACAACCCGAAGGCCCCCGGGTCTATGGGAAC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000559 unedited</p> <pre>NNAAGCTCTGGACCCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGTATCT CTTAGCAGAATAGATTTATTATTTGATTGCTTGCAGAATAAAGCCTATCCTTGAAAGCTC TGCATCATGGGCAGTGAGCTCAGTGGTATCTGGAGGACAGGGCACTGGCCACTCCAGTCA CCATCTTCTGCCAGGAAGCCTGCACCTCAGGGGTGAATTTTGGCGAAATGGATTGCCA AAACGGTCACCAGCACATTTCCAGGAGCTTGAAGTTCTCAGGATCCACATGCAGCTTGT CACAGTGAGTTCACTCAGCTGGCAAAGGTGCCCTTGAGATCATCCAGGTGCTTTATGG CATCTCCAAGGAAGTCAGCACCTTCTTGCATGTGCCTTGACTTTGGGGTTGCCATGA TGGCAGAGGCAGAGGACAGGTTGCCAAAGCTGTCAAAGAACCCTGGGTCCATGGGTAGA CAACCAGGAGCCTTCCCAGGGTTTCTCCTCCAGCATCTTCCACATTCACCTTGCCCCACA GGCTTGTGATAGTAGCCTTGTCTCCTCTGTGAAATGACCCATGGCGTCTGGACTAGGAG CTTATTGATAACCTCAGCGTTCCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCG TATTACAAAAATCTGACGGTTCACCTAACGAGCTCTGCTTATATAGACCTCCACCGTAC ACGCCCTACCGCCATTTGGGGCAACGGGGCGGGTTATACCACATTTTGGAAAGTCCCCG TGATTTTGGGGCCAAAACAACCTCCATTGACGCAATGGGGCGGAGCTTTGGAAATCCCCG GAGGCAAACCCGCTCTCCCGCCCTGGGGCGACCGCCAACCCCTCCCTGGTAAAAGC AGGCCTATACCGCATGGCCGCCACCGCAA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000559
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).

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_000559.2](#), [NP_000550.2](#)

RefSeq Size: 584 bp

RefSeq ORF: 444 bp

Locus ID: 3047

UniProt ID: [P69891](#)

Cytogenetics: 11p15.4

Domains: globin

Gene Summary: The gamma globin genes (HBG1 and HBG2) are normally expressed in the fetal liver, spleen and bone marrow. Two gamma chains together with two alpha chains constitute fetal hemoglobin (HbF) which is normally replaced by adult hemoglobin (HbA) at birth. In some beta-thalassemias and related conditions, gamma chain production continues into adulthood. The two types of gamma chains differ at residue 136 where glycine is found in the G-gamma product (HBG2) and alanine is found in the A-gamma product (HBG1). The former is predominant at birth. The order of the genes in the beta-globin cluster is: 5'-epsilon -- gamma-G -- gamma-A -- delta -- beta--3'. [provided by RefSeq, Jul 2008]