

Product datasheet for **SC125987**

Haptoglobin (HP) (BC058031) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Haptoglobin (HP) (BC058031) Human Untagged Clone
Tag:	Tag Free
Symbol:	Haptoglobin
Synonyms:	binding peptide; BP; haptoglobin; haptoglobin, alpha polypeptide; haptoglobin, beta polypeptide; haptoglobin alpha(1S)-beta; haptoglobin alpha(2FS)-beta; HP2-ALPHA-2; HPA1S; MGC111141
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC058031 edited

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GGGGGCTCTTCCAGAGGCAAGACCAACCAAGATGAGTGCCTGGGAGCTGTCATTGCCCT
CCTGCTCTGGGGACAGCTTTTTGCACTGGACTCAGGCAATGATGTCACGGATATCGCTAC
CAGTGTAAGAATACTACAACTGCGCACAGAAGGAGATGGAGTGACACCTAAACAAT
GGGAAGCAGTGGATAAATAAGGCTGTTGGAGATAAACTTCTGAATGTGAAGCAGTATGT
GGGAAGCCCAAGAATCCGGCAAACCCAGTGCAGCGGATCCTGGGTGGACACCTGGATGCC
AAAGCAGCTTTCCCTGGCAGGCTAAGATGGTTTCCACCATAATCTCACCACAGGTGCC
ACGCTGATCAATGAACAATGGCTGCTGACCACGGCTAAAAATCTTCTTCCCTGAACATTCA
GAAAATGCAACAGCGAAAGACATTGCCCTACTTTAACACTCTATGTGGGGAAAAAGCAG
CTTGATAGAGATTGAGAAGTTGTTCTACACCCTAACTACTCCCAGGTAGATATTGGGCTC
ATCAAACCTCAAACAGAAGGTGTCTGTTAATGAGAGAGTATGCCATCTGCCTACCTTCA
AAGGATTATGCAGAAGTAGGGCGTGTGGTTATGTTTCTGGCTGGGGGCGAAATGCCAAT
TTTAAATTTACTGACCATCTGAAGTATGTCATGCTGCCTGTGGCTGACCAAGACCAATGC
ATAAGGCATTATGAAGGCAGCACAGTCCCCGAAAAGAAGACCCGAAGAGCCCTGTAGGG
GTGCAGCCATACTGAATGAACACACCTTCTGTGCTGGCATGTCTAAGTACCAAGAAGAC
ACCTGCTATGGCGATGCGGGCAGTGCCTTTGCCGTTACGACCTGGAGGAGGACACCTGG
TATGCGACTGGGATCTTAAGCTTTGATAAAGAGCTGTGCTGTGGCTGAGTATGGTGTGTAT
GTGAAGGTGACTTCCATCCAGGACTGGGTTCAGAAGACCATAGCTGAGAACTAATGCAAG
GCTGGCCGGAAGCCCTTGCTGAAAGCAAGATTCAGCCTGGAAGAGGGGCAAAGTGGACG
GGAGTGGACAGGAGTGGATGCGATAAGATGTGGTTTGAAGCTGATGGGTGCCAGCCCTGC
ATTGCTGAGTCAATCAATAAAGAGCTTTCTTTTGACACAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for BC058031 unedited CGCAGTTCAGGATTTGTAACCCTTACTATAGGCGGCCGAATCGCCTTACGCCGGCT CTTCGAGCAANACGGGCGGAGAGGGCCTGGGAGCTGTCATTGCCCTCCTGCTCTGGGA CAGCTTTTTCAGTGGACTCAGGCAATGATGTCACGGATATCGCTACCAGTGAAGAACT ACTACAACTGCGCACAGAAGGAGATGGAGTGTACACCTTAAACAATGGGAAGGGTGA TAAATAAGGCTGTTGGAGATAAACTTCTGAATGTGAAGCAGTATGTGGGAAGCCCAAGA ATCCGGCAAACCCAGTGCAGCGGATCCTGGGTGGACACCTGGATGCCAAAGGCAGCTTTC CCTGGCAGGCTAAGATGGTTTCCACCATAATCTCACCACAGGTGCCACGCTGATCAATG AACAAATGGCTGCTGACACCGCTAAAAATCTTCTTCTGAAACCATTAGAAAATGCAACAG CGAAAGACATTGCCCTACTTTAACACTCTATGTGGGAAAAAGCAGCTTGTAGAGATTG AGAAGGTTGTTCTACACCCTAACTACTCCAGGTAGATATTGGGGTCATCAAACCTCAAAC AGAAAGTGTCTGTTAATGAGAGAGTGTGCCATCTGCCTACCCTTCAAGGGTTATGCAA AATAAGGGCGTGTGGTTATGGTTTCTGGCTGGGGGGCGAAATGCCAATTTTAAATTTAC TGACCATCTGAAGTATGTCATGCTGCCTGGGGGCGACCAACCAATGCTAAAGGGATATG GAAAGGGCGCAAATCCCCCAAAAAAGAACACCAANAGCCCTGGGGGGGCGAGCCATAC TGATGGACCCCTTCTGTGCGGGCGGTTAAGACCAAAAAACCCCGGCTGGGGATCG
Restriction Sites:	Please inquire
ACCN:	BC058031
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:	<ol style="list-style-type: none"> 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:	BC058031.1 , AAH58031.1
RefSeq Size:	1207 bp
RefSeq ORF:	684 bp
Locus ID:	3240
Cytogenetics:	16q22.2
Protein Families:	Druggable Genome, Protease, Secreted Protein, Transmembrane

Gene Summary:

This gene encodes a preproprotein, which is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. Haptoglobin functions to bind free plasma hemoglobin, which allows degradative enzymes to gain access to the hemoglobin, while at the same time preventing loss of iron through the kidneys and protecting the kidneys from damage by hemoglobin. Mutations in this gene and/or its regulatory regions cause ahaptoglobinemia or hypohaptoglobinemia. This gene has also been linked to diabetic nephropathy, the incidence of coronary artery disease in type 1 diabetes, Crohn's disease, inflammatory disease behavior, primary sclerosing cholangitis, susceptibility to idiopathic Parkinson's disease, and a reduced incidence of Plasmodium falciparum malaria. The protein encoded also exhibits antimicrobial activity against bacteria. A similar duplicated gene is located next to this gene on chromosome 16. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2014]