

## Product datasheet for SC116954

### Haptoglobin (HP) (NM\_005143) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Haptoglobin (HP) (NM_005143) Human Untagged Clone
Tag:	Tag Free
Symbol:	Haptoglobin
Synonyms:	BP; HP2ALPHA2; HPA1S
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116954 sequence for NM_005143 edited (data generated by NextGen Sequencing)

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ATGAGTGCCTGGGAGCTGTCATTGCCCTCTGCTCTGGGACAGCTTTTGCAGTGGAC
TCAGGCAATGATGTCACGGATATCGCAGATGACGGCTGCCCGAAGCCCCGAGATTGCA
CATGGCTATGTGGAGCACTCGGTTCCGCTACCAAGTGAAGAAGCACTACAACTGCGCACA
GAAGGAGATGGAGTATACACCTTAAATGATAAGAAGCAGTGGATAAATAAGGCTGTTGGA
GATAAACTTCTGAATGTGAAGCAGATGACGGCTGCCCGAAGCCCCGAGATTGCACAT
GGCTATGTGGAGCACTCGGTTCCGCTACCAAGTGAAGAAGCACTACAACTGCGCACAGAA
GGAGATGGAGTGTACACCTTAAACAATGAGAAGCAGTGGATAAATAAGGCTGTTGGAGAT
AACTTCTCTGAATGTGAAGCAGTATGTGGGAAGCCCAAGAATCCGGCAAACCCAGTGCAG
CGGATCCTGGGTGGACACCTGGATGCCAAAGGCAGCTTCCCTGGCAGGCTAAGATGGTT
TCCCACCATAATCTCACCACAGGTGCCACGCTGATCAATGAACAATGGCTGCTGACCACG
GCTAAAAATCTCTTCTGAACATTTCAGAAAATGCAACAGCGAAAAGACATTGCCCTACT
TTAACTACTATGTGGGGAAAAAGCAGCTTGTAGAGATTGAGAAGGTTGTTCTACACCT
AACTACTCCCAGGTAGATATTGGGCTCATCAAACCTCAAACAGAAGGTGTCTGTTAATGAG
AGAGTGATGCCCATCTGCCTACCTCAAAGGATTATGCAGAAGTAGGGCGTGTGGGTTAT
GTTTCTGGCTGGGGCGAAATGCCAATTTAAATTTACTGACCATCTGAAGTATGTCATG
CTGCCTGTGGCTGACCAAGACCAATGCATAAGGCATTATGAAGGCAGCACAGTCCCCGAA
AAGAAGACACCGAAGAGCCCTGTAGGGGTGCAGCCATACTGAATGAACACACCTTCTGT
GCTGGCATGTCTAAGTACCAAGAAGACACCTGCTATGGCGATGCGGGCAGTGCCTTTGCC
GTTACAGCCTGGAGGAGACACCTGGTATGCGACTGGGATCTTAAAGCTTTGATAAGAGC
TGTGCTGTGGCTGAGTATGGTGTGTATGTGAAGGTGACTTCCATCCAGGACTGGGTTTCAG
AAGACCATAGCTGAGAACTAA

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Clone variation with respect to NM\_005143.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_005143 unedited</p> <pre> NGTTCAAATTTGTATACGACTCCTATAGGGCGGCCGGAATCGGCACCAGCAAAACCAAC CAANATGAGTGCCTGGGAGCTGTCAATGCCCTCCTGCTCTGGGGACAGCTTTTTGCAGT GGACTCAGGCAATGATGTACGGATATCGCAGATGACGGCTGCCCGAAGCCCCCGAGAT TGCACATGGCTATGTGGAGCACTCGTTTCGCTACCAGTGAAGAACTACTACAACTGCC CACAGAAGGAGATGGAGTATACACCTTAAATGATAAGAAGCAGTGGATAAATAAGGCTGT TGGAGATAAACTTCCTGAATGTGAAGCAGATGACGGCTGCCCGAAGCCCCCGAGATTGC ACATGGCTATGTGGAGCACTCGTTTCGCTACCAGTGAAGAACTACTACAACTGCGCAC AGAAGGAGATGGAGTGTACACCTTAAACAATGAGAAGCAGTGGATAAATAAGGCTGTTGG AGATAAACTTCCTGAATGTGAAGCAGTATGTGGGAAGCCCAAGAATCCGGCAAACCCAGT GCAGCGGATCCTGGTGGACACCTGGATGCCAAAGGCAGCTTTCCTGGCAGGCTAAGAT GGTTTCCACCATAATCTCACCACAGGTGCCACGCTGATCAATGAACAATGGCTGCTGAC CACGGCTAAAAATCTTCTCCTGAACCATTGAGAAAATGCAACAGCGAAAGACATTGCCCC TACTTTAACACTCTATGTGGNGAAAAAGCAGCTTGTAGAGATTGAGAAAGNTGTTCTAC ACCCTAACTACTCCCAGTAGATATTGGGGCTCATCAAACCAACAGAAGGTGTCTGTTA TGAGAGAGTGATGCCATCTGCCTACCCTCAANATTATGCAGAGTAGGGCGTGTGGGT TATGGTTNCTGGCTGGGGCGAAAGCCAAT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_005143 unedited</p> <pre> NNNNNNNTTTGACTTTGGACCCGCGCCGCATNCNANGATCGAGTTTTTTTTTTTTTTTTT TTTTTTTTGGGGCAAAAAAACTCTTTATTGATTGACTCAGCAATGCAGGGCTGGCACCC ATCAGCTTCAAACCACATCTTATCGCATCCACTCCTGTCCACTCCCGTCCACTTTGCCCT CTTCCAGGCTGAAATCTTGCTTTCAGGCAAGGGCTTCCGGCCAGCCTTGCAATTAGTTCTC AGCTATGGGCTTCTGAACCCAGTCTGGATGGAAGTACCTTACATACACACCATACTC AGCCACAGCACAGCTCTTATCAAAGCTTAAAGTCCCAGTCGCATACCAGGTGTCTCCTC CAGGTCGTGAACGGCAAAGGCACTGCCCGCATGCCATAGCAGGTGTCTTCTTGGTACTT AGACATGCCAGCACAGAAGGTGTGTTTATTGATGAGGCTGCACCCCTACAGGGCTCTT CGGTGTCTTCTTTTGGGGACTGTGCTGCCTTCATAATGCCTTATGCATTGGTCTTGGTC AGCCACAGGCAGCATGACATACTCAGATGGTCAGTAAATTTAAAATTGGCATTTCGCC CCAGCCAGAAAACATAACCCACACGCCCTACTTCTGCATAATCCTTGAAGGTANGCAGAT GGGCATCACTCTCTCATTAAACAGACACCTTCTGTTTGTGATGAGCCCAAATCTACC TGGNATAGTTAGGNTGTAGAACACCTTCTCATCTACAGCTGCTTTTTCCCCCATAGAG TGNTAAAGTAGGGGCATGTCTTTCGCTGNTGCATTTTCTGATGGGTGAGAAAGAGATTTA GCCGTGTCGAGCCATGGTCATGATCACGTGCACCTGTGTGAGATATGGTGGAACCATCT AACTGCAGGGAGCTGCTT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005143
<b>Insert Size:</b>	1450 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).

**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\\_005143.2](#), [NP\\_005134.1](#)

**RefSeq Size:** 1433 bp

**RefSeq ORF:** 1221 bp

**Locus ID:** 3240

**UniProt ID:** [P00738](#)

**Cytogenetics:** 16q22.2

**Domains:** CCP, Tryp\_SPC

**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]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).