

## Product datasheet for **SC322992**

### Haptoglobin (HP) (NM\_001126102) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Haptoglobin (HP) (NM\_001126102) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Haptoglobin  
**Synonyms:** BP; HP2ALPHA2; HPA1S  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001126102 edited  
 GACCAACCAAGATGAGTGCCTGGGAGCTGTCATTGCCCTCCTGCTCTGGGGACAGCTTT  
 TTGCAGTGGACTCAGGCAATGATGTCACGGATATCGCAGATGACGGCTGCCCGAAGCCCC  
 CCGAGATTGCACATGGCTATGTGGAGCACTCGGTTGCTACCAAGTGAAGAACTACTACA  
 AACTGCGCACAGAAGGAGATGGAGTGTACACCTTAAACAATGAGAAGCAGTGGATAAATA  
 AGGCTGTTGGAGATAAACTTCTGAATGTGAAGCAGTATGTGGGAAGCCCAAGAATCCGG  
 CAAACCCAGTGCAGCGGATCCTGGGTGGACACCTGGATGCCAAAGGCAGCTTTCCCTGGC  
 AGGCTAAGATGGTTTCCACCATAATCTCACCACAGGTGCCACGCTGATCAATGAACAAT  
 GGCTGCTGACCACGGCTAAAAATCTTCTCCTGAACCATTGAGAAAATGCAACAGCGAAAAG  
 ACATTGCCCTACTTTAACACTCTATGTGGGAAAAAGCAGCTTGTAGAGATTGAGAAGG  
 TTGTTCTACACCCTAACTACTCCAGGTAGATATTGGGCTCATCAAACAAACAGAAGG  
 TGTCTGTTAATGAGAGAGTATGCCCATCTGCCTACCTTCAAAGGATTATGCAGAAGTAG  
 GCGTGTGGGTTATGTTTCTGGCTGGGGGCGAAATGCCAATTTTAAATTTACTGACCATC  
 TGAAGTATGTCATGCTGCCTGTGGCTGACCAAGACCAATGCATAAGGCATTATGAAGGCA  
 GCACAGTCCCCGAAAAGAAGACACCGAAGAGCCCTGTAGGGGTGCAGCCATACTGAATG  
 AACACACCTTCTGTGCTGGCATGTCTAAGTACCAAGAAGACACCTGCTATGGCGATGCGG  
 GCAGTGCCTTTGCCGTTACAGACCTGGAGGAGGACACCTGGTATGCGACTGGGATCTTAA  
 GCTTTGATAAGAGCTGTGCTGTGGCTGAGTATGGTGTGTATGTGAAGGTGACTTCCATCC  
 AGGACTGGGTTCCAGAAGACCATAGCTGAGAATAATGCAAGGCTGGCCGGAAGCCCTTGC  
 CTGAAAGCAAGATTTTCAGCCTGGAAGAGGGCAAAGTGGACGGGAGTGGACAGGAGTGGAT  
 GCGATAAGATGTGGTTTGAAGCTGATGGGTGCCAGCCCTGCATTGCTGAGTCAATCAATA  
 AAGAGCTTTCTTTGACCCAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001126102  
**Insert Size:** 1300 bp



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<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001126102.1</a> , <a href="#">NP_001119574.1</a>
<b>RefSeq Size:</b>	1284 bp
<b>RefSeq ORF:</b>	1044 bp
<b>Locus ID:</b>	3240
<b>UniProt ID:</b>	<a href="#">P00738</a>
<b>Cytogenetics:</b>	16q22.2
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein, Transmembrane
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks two alternate in-frame exons in the mid-coding region, compared to variant 1, resulting in a shorter protein (isoform 2), compared to isoform 1.</p>