

## Product datasheet for RC223612L2V

## OriGene Technologies, Inc.

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## Haptoglobin (HP) (NM 005143) Human Tagged ORF Clone Lentiviral Particle

**Product data:** 

**Product Type:** Lentiviral Particles

**Product Name:** Haptoglobin (HP) (NM\_005143) Human Tagged ORF Clone Lentiviral Particle

Symbol: Haptoglobin

Synonyms: BP; HP2ALPHA2; HPA1S

Mammalian Cell

Selection:

None

**Vector:** pLenti-C-mGFP (PS100071)

Tag: mGFP

**ACCN:** NM\_005143 **ORF Size:** 1218 bp

**ORF Nucleotide** 

The ORF insert of this clone is exactly the same as(RC223612).

OTI Disclaimer:

Sequence:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**RefSeg:** NM 005143.2

 RefSeq Size:
 1433 bp

 RefSeq ORF:
 1221 bp

 Locus ID:
 3240

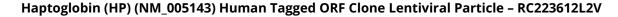
 UniProt ID:
 P00738

 Cytogenetics:
 16q22.2

**Domains:** CCP, Tryp\_SPc

**Protein Families:** Druggable Genome, Protease, Secreted Protein, Transmembrane





ORIGENE

MW: 45.21 kDa

**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]