

Product datasheet for RC223612L4

OriGene Technologies, Inc.

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Haptoglobin (HP) (NM_005143) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Haptoglobin (HP) (NM_005143) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Haptoglobin

Synonyms: BP; HP2ALPHA2; HPA1S

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

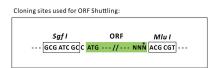
ORF Nucleotide

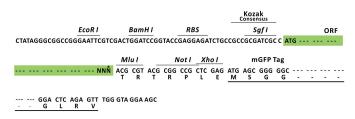
The ORF insert of this clone is exactly the same as(RC223612).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_005143

ORF Size: 1218 bp



Haptoglobin (HP) (NM_005143) Human Tagged Lenti ORF Clone - RC223612L4

OTI Disclaimer: 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.

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: <u>NM 005143.2</u>

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

MW: 45.21 kDa

Gene Summary: This gene encodes a preproprotein, which is processed to yield both alpha and beta chains,

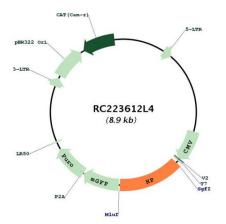
which subsequently combine as a tetramer to produce haptoglobin. Haptoglobin functions to bind free plasma hemoglobin, which allows degradative enzymes to gain access to the hemoglobin, while at the same time preventing loss of iron through the kidneys and protecting the kidneys from damage by hemoglobin. 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

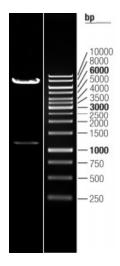
different isoforms have been found for this gene. [provided by RefSeq, Oct 2014]



Product images:



Circular map for RC223612L4



Double digestion of RC223612L4 using Sgfl and Mlul $\,$