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Product datasheet for SC202159

Haptoglobin (HP) (NM_005143) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Haptoglobin (HP) (NM_005143) Human 3' UTR Clone
Symbol:	Haptoglobin
Synonyms:	BP; HP2ALPHA2; HPA1S
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_005143
Insert Size:	195 bp
Insert Sequence:	>SC202159 3'UTR clone of NM_005143 The sequence shown below is from the reference sequence of NM_005143. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC TGGGTTCAGAAGACCATAGCTGAGAACTAATGCAAGGCTGGCCGGAAGCCCTTGCCTGAAAGCAAGATT TCAGCCTGGAAGAGGGCAAAGTGGACGGGAGTGGACAGGAGTGGATGCGATAAGATGTGGTTTGAAGCT GATGGGTGCCAGCCCTGCATTGCTGAGTCAATCAATAAAGAGCTTTCTTTTGACCCA ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_005143.5

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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]

Locus ID: 3240

MW: 7.4