

Product datasheet for **RG223612**

Haptoglobin (HP) (NM_005143) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Haptoglobin (HP) (NM_005143) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Haptoglobin
Synonyms:	BP; HP2ALPHA2; HPA1S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223612 representing NM_005143 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGCCTGGGAGCTGTCATTGCCCTCCTGCTCTGGGGACAGCTTTTTGCAGTGGACTCAGGCAATG
ATGTCACGGATATCGCAGATGACGGCTGCCGAAGCCCCGAGATTGCACATGGCTATGTGGAGCACTC
GGTTTCGCTACAGTGTAAAGAACTACTACAACTGCGCACAGAAGGAGATGGAGTATACACCTTAAATGAT
AAGAAGCAGTGGATAAAATAGGCTGTTGGAGATAAACTTCTGAATGTGAAGCAGATGACGGCTGCCGA
AGCCCCCGAGATTGCACATGGCTATGTGGAGCACTCGGTTTCGCTACAGTGTAAAGAACTACTACAACT
GCGCACAGAAGGAGATGGAGTGTACACCTTAAACAATGAGAAGCAGTGGATAAAATAGGCTGTTGGAGAT
AAACTTCTGAATGTGAAGCAGTATGTGGGAAGCCCAAGAATCCGGCAAACCCAGTGCAGCGGATCCTGG
GTGGACACCTGGATGCCAAAGGCAGCTTCCCTGGCAGGCTAAGATGGTTTCCCACCATAATCTCACCAC
AGGTGCCACGCTGATCAATGAACAATGGCTGCTGACCACGGCTAAAAATCTTCTCCTGAACCATTAGAA
AATGCAACAGCGAAAGACATTGCCCTACTTTAACTCTATGTGGGGAAAAAGCAGCTTGTAGAGATTG
AGAAGTTGTTTACACCCTAACTACTCCAGGTAGATATTGGGCTCATCAAACCAAGAGGTTGTC
TGTTAATGAGAGAGTGTGCCCATCTGCCTACCTTCAAAGGATTATGCAGAAGTAGGGCGTGTGGTTAT
GTTTCTGGCTGGGGCGAAATGCCAATTTAAATTTACTGACCATCTGAAGTATGTCATGCTGCCTGTGG
CTGACCAAGACCAATGCATAAGGCATTATGAAGGCAGCACAGTCCCCGAAAAGAAGACACCGAAGAGCCC
TGTAGGGTGCAGCCATACTGAATGAACACACCTTCTGTGCTGGCATGTCTAAGTACCAAGAAGACACC
TGCTATGGCGATGCGGGCAGTGCCTTTGCCGTTACGACCTGGAGGAGGACACCTGGTATGCGACTGGGA
TCTTAAGCTTTGATAAGAGCTGTGCTGTGGCTGAGTATGGTGTGTATGTGAAGGTGACTTCCATCCAGGA
CTGGGTTCCAGAAGACCATAGCTGAGAAC

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223612 representing NM_005143
Red=Cloning site Green=Tags(s)

MSALGAVIALLLWGQLFAVDSGNDVTDIADDGCPKPPEIAHGYVEHSVRYQCKNYYKLRTEGDGVYTLND
 KKQWINKAVGDKLPECEADDGCPKPPEIAHGYVEHSVRYQCKNYYKLRTEGDGVYTLNNEKQWINKAVGD
 KLPECEAVCGKPKNPANPVQRILGGHLDAKGSFPWQAKMVSHHNLTTGATLINEQWLLTTAKNLF LNHSE
 NATAKDIAPTLTYVGGKQLVEIEKVVLPNYSQVDIGLIKQKQVSVNERVMPICLPKDYAEVGRVGY
 VSGWGRNANFKFTDHLKYVMLPVADQDQCI RHYEGSTVPEKKTTPKSPVGVQPILNEHTFCAGMSKYQEDT
 CYGDAGSAFAVHDL EEDTWYATGILSFDKSCAVAEYGVYVKVTSIQDWVQKTI AEN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005143

ORF Size: 1218 bp

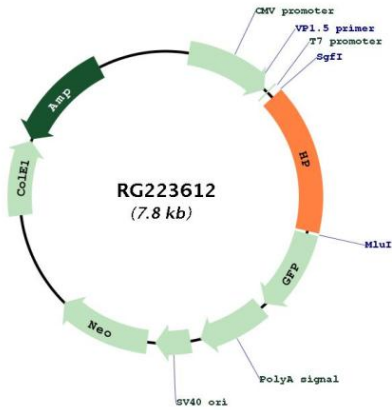
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_005143.5
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:	<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>

Product images:



Circular map for RG223612