

Product datasheet for **RG218300**

HPR (NM_020995) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HPR (NM_020995) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HPR
Synonyms: A-259H10.2; HP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG218300 representing NM_020995
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGACCTGGGAGCTGTCATTTCCCTCCTGCTCTGGGGACGACAGCTTTTTGCACTGTACTCAGGCA
ATGATGTCACGGATATTTAGATGACCGCTTCCCGAAGCCCCCTGAGATTGCAAATGGCTATGTGGAGCA
CTTGTTCGCTACCAGTGAAGAACTACTACAGACTGCGCACAGAAGGAGATGGAGTATACACCTTAAAT
GATAAGAAGCAGTGGATAAATAAGGCTGTTGGAGATAAACTTCTGAATGTGAAGCAGTATGTGGGAAGC
CCAAGAATCCGGCAAACCCAGTGCAGCGGATCCTGGGTGGACACCTGGATGCCAAAGGCAGCTTTCCCTG
GCAGGCTAAGATGGTTTCCACCATAATCTCACCACAGGGGCCACGCTGATCAATGAACAATGGCTGCTG
ACCACGGCTAAAAATCTTCTTCTGAACCATTCAGAAAAATGCAACAGCGAAAGACATTGCCCTACTTTAA
CACTCTATGTGGGGAAAAAGCAGCTTGTAGAGATTGAGAAGGTGGTTCTACACCTAACTACCACCGGT
AGATATTGGGCTCATCAAACCAACAGAAGGTGCTTGTAAATGAGAGAGTATGCCCATCTGCCTACCT
TCAAAGAATTATGCAGAAGTAGGGCGTGTGGGTTACGTGTCTGGCTGGGGACAAAGTGACAACCTTTAAAC
TTACTGACCATCTGAAGTATGTCATGCTGCCTGTGGCTGACCAATACGATTGCATAACGCATTATGAAGG
CAGCACATGCCCCAAATGGAAGGCACCGAAGAGCCCTGTAGGGGTGCAGCCATACTGAACGAACACACC
TTCTGTGTCGGCATGTCTAAGTACCAGGAAGACACCTGCTATGGCGATGCGGGCAGTGCCTTTGCCGTTT
ACGACCTGGAGGAGACACCTGGTACGCGGCTGGGATCCTAAGCTTTGATAAGAGCTGTGCTGTGGCTGA
GTATGGTGTATGTGAAGGTGACTTCCATCCAGCACTGGGTTTCAAGACCATAGCTGAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218300 representing NM_020995
 Red=Cloning site Green=Tags(s)

MSDLGAVISLLLWGRQLFALYSGNDVTDISDDRFKPKPEIANGYVEHLFRYQCKNYYRLRTEGDGVYTLN
 DKKQWINKAVGDKLPECEAVCGKPKNPANPVQRILGGHLDAGKSFQWQAKMVSHHNLTTGATLINEQWLL
 TTAKNLFNLHSENATAKDIAPTLTLYVGGKQLVEIEKVVLPNYHQVDIGLIKQKQVLVNERVMPICLP
 SKNYAEVGRVGYVSGWGQSDNFKLTDLKLYVMLPVADQYDCITHYEGSTCPKWKAPKSPVGVQPILNEHT
 FCVGMISKYQEDTCYGDAGSAFAVHDLEEDTWYAAGILSFDKSCAVAEGVYVYKVTISIQHWVQKTIEN

TRTRPLE - GFP Tag - V

Restriction Sites:

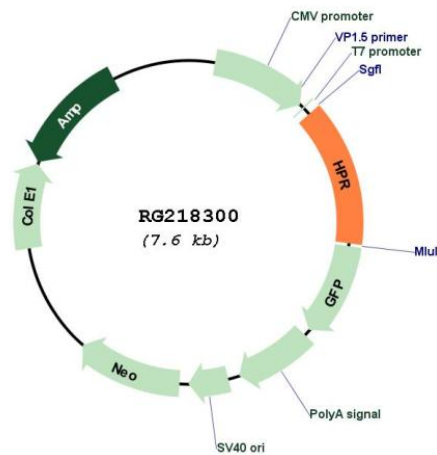
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_020995

ORF Size: 1044 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: [NM_020995.4](#)

RefSeq Size: 1245 bp

RefSeq ORF: 1047 bp

Locus ID: 3250

UniProt ID: [P00739](#)

Cytogenetics: 16q22.2

Domains: CCP, Tryp_SPc

Protein Families: Druggable Genome, Protease, Secreted Protein

Gene Summary: This gene encodes a haptoglobin-related protein that binds hemoglobin as efficiently as haptoglobin. Unlike haptoglobin, plasma concentration of this protein is unaffected in patients with sickle cell anemia and extensive intravascular hemolysis, suggesting a difference in binding between haptoglobin-hemoglobin and haptoglobin-related protein-hemoglobin complexes to CD163, the hemoglobin scavenger receptor. This protein may also be a clinically important predictor of recurrence of breast cancer. [provided by RefSeq, Oct 2011]