

Product datasheet for **MG223507**

Hp (NM_017370) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hp (NM_017370) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hp
Synonyms: HP-; HP-1; pre; preHP2; zo
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG223507 representing NM_017370
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGAGCCCTGGGAGCTGTTGTCACTCTCTGCTCTGGGGTCAGCTTTTGTGTGGAGTTGGCAATG
 ATGCCATGGACTTTGAAGATGACAGCTGCCAAAGCCCCAGAGATTGCAAACGGCTATGTGGAGCACTT
 GGTTTCGCTATCGCTGCCGACAGTTCTACAGACTACGGGCCGAAGGAGATGGGGTGTACACCTAAACGAC
 GAGAAGCAATGGGTGAACACAGTCGCTGGAGAGAACTCCCCGAATGTGAGGCAGTGTGTGGGAAGCCCA
 AGCACCCTGTGGACCAGGTGCAGCGCATCATCGGTGGCTCTATGGATGCCAAAGGCAGCTTTCCTTGCCA
 GGCAAGATGATCTCCCGCCACGGACTACCACCGGGGCCACGTTGATCAGTGACCAGTGCGTGTGACC
 ACGGCCAAAAACCTTCTCCTGAACCACAGCGAGACGGCGTCAGCCAAGGACATCACCCCCACCCTAACGC
 TCTACGTGGGGAAAAACCAGCTGGTGGAGATTGAGAAGGTCGTTCTCCACCCCAACCCTCCGTGGTGGGA
 TATCGGGCTAATCAAACCTCAAGCAGAGGGTGTGTGTAACCGAGAGAGTCAATGCCTATCTGCCTGCCTTC
 AAAGACTACATAGCACCAGGCCGTGTGGGCTACGTGTCTGGTGGGGCGGAACGCCAACCTTAGATTTA
 CCGATCGTCTCAAGTATGTCATGCTGCCTGTGGCCGACCAGGACAAGTGTGTGGTGCCTATGAGAATAG
 TACAGTGCCCGAGAAGAAAACTTGACGAGTCCCGTTGGGGTCCAGCCTATCTTGAACGAGCACACCTTC
 TGTGCTGGCCTCACCAAGTACCAGGAAGACACCTGTACGGTGACGCCGGCAGTGCCTTTGCCATTATG
 ACATGGAGGAGGACACCTGGTACGACGCTGGGATCCTGAGCTTTGACAAGAGCTGCGCTGTGCTGAGTA
 TGGTGTGTACGTGAGGGCGACCGACCTGAAGGACTGGGTTGAGGAAACCATGGCCAAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223507 representing NM_017370
 Red=Cloning site Green=Tags(s)

MRALGAVVTL LLLWGQLF AVELGNDAMDFEDDSCPPEIANGYVEHLVRYRCRQFYRLRAEGDGVYTLND
 EKQWVNTVAGEKLP ECEAVCGKPKHPVDQVQRIIGGSMDAKGSFPWQAKMISRHGLTTGATLISDQWLLT
 TAKNLF LNHSETASAKDITPTLTYVGNQLVEIEKVVLPNHSVVDIGLIKLRVLTVERVMPICLPS
 KDYIAPGRVGYVSGWGRNANFRFTDRLKYVMLPVADQDKCVVHYENSTVPEKKNLTPSPVGVQPI LNEHTF
 CAGLTKYQEDTCYGDAGSAFAIHDMEEDTWYAAIGILSFDKSCAVAEYGVYVRATDLKDWVQETMAKN

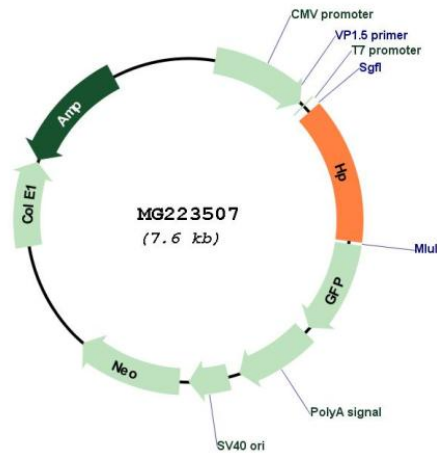
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017370

ORF Size: 1041 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_017370.2 , NP_059066.1
RefSeq Size:	1365 bp
RefSeq ORF:	1044 bp
Locus ID:	15439
UniProt ID:	Q61646
Cytogenetics:	8 57.11 cM
Gene Summary:	This gene encodes a plasma glycoprotein called haptoglobin that binds free hemoglobin. The encoded preproprotein undergoes proteolytic processing to generate alpha and beta subunits that form a disulfide-linked tetrameric protein that plays an important role in the sequestration and clearance of extracorporeal hemoglobin. Mice lacking the encoded protein exhibit stunted development of lymphoid organs associated with lower counts of mature T and B cells in the blood and secondary lymphoid compartments. [provided by RefSeq, Aug 2016]