

Product datasheet for **RG201362**

HMBS (NM_000190) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMBS (NM_000190) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HMBS
Synonyms:	PBG-D; PBGD; PORC; UPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201362 representing NM_000190 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCGGTAACGGCAATGCGGCTGCAACGGCGGAAGAAAACAGCCAAAGATGAGAGTGATTCCGCTGG
GTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGACAGTGTGGTGGCAACATTGAAAGCCTCGTACCC
TGGCCTGCAGTTTAAAATCATTGCTATGTCCACCACAGGGGACAAGATTCTTGATACTGCACTCTCTAAG
ATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTTGAACATGCCCTGGAGAAGAATGAAGTGGACCTGGTTG
TTCACCTCTTGAAGGACCTGCCACTGTGCTTCTCCTGGCTTACCATCGGAGCCATCTGCAAGCGGGA
AAACCCTCATGATGCTGTGTCTTTACCCAAAATTTGTTGGGAAGACCCTAGAAACCCTGCCAGAGAAG
AGTGTGGTGGGAACCACTCCCTGCGAAGAGCAGCCAGCTGCAGAGAAAGTTCCCGCATCTGGAGTTCA
GGAGTATTCGGGGAAACCTCAACACCCGGCTTCGGAAGCTGGACGAGCAGCAGGAGTTTCACTGCCATCAT
CCTGGCAACAGCTGGCCTGCAGCGCATGGGCTGGCACAACCGGTGGGGCAGATCCTGCACCCTGAGGAA
TGCATGTATGCTGTGGCCAGGGGGCTTGGGCGTGAAGTGGAGCCAAGGACCAGGACATCTTGGATC
TGGTGGGTGTGCTGCACGATCCCGAGACTCTGCTTCGCTGCATCGCTGAAAGGCCTTCTGAGGACCT
GGAAGGAGGCTGCAGTGTGCCAGTAGCCGTGCATACAGCTATGAAGGATGGGCAACTGTACCTGACTGGA
GGAGTCTGGAGTCTAGACGGCTCAGATAGCATACAAGAGACCATGCAGGCTACCATCCATGTCCTGCC
AGCATGAAGATGGCCCTGAGGATGACCCACAGTTGGTAGGCATCACTGCTCGTAACATTCCACGAGGGCC
CCAGTTGGCTGCCAGAACTTGGGCATCAGCCTGGCCAACCTGTTGCTGAGCAAAGGAGCAAAAACATC
CTGGATGTTGCACGGCAGCTTAACGATGCCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201362 representing NM_000190
 Red=Cloning site Green=Tags(s)

MSGNGNAAATAEENSPKMRVIRVGTRKSQLARIQTDSVVATLKASYPGLQFEIIAMSTTGDKILDALS
 IGEKSLFTKELEHALEKNEVDLVHSLKDLPTVLPFGFTIGAICKRENPHDAVVFHPKFVGKTLETLP
 SVVGTSSLRRAAQLQRKFPHFLEFRSIRGNLNTRLRKLDEQQEFSAILATAGLQRMGWHNRVQIILH
 PEE CMYAVGQGALGVEVRAKDQDILDVLVGLHDPETLLRRCIAERAFLRHLEGGCSVPVAVHTAMK
 DGQLYLTG GWWSLDGSDSIQETMQATIHVPAQHEDGPEDDPQLVGITARNIPRGPQLAAQNLG
 ISLANLLL SKGAKNILDVARQLNDAH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000190

ORF Size: 1083 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:

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_000190.4](#)

RefSeq Size: 1526 bp

RefSeq ORF: 1086 bp

Locus ID: 3145

UniProt ID: [P08397](#)

Cytogenetics: 11q23.3

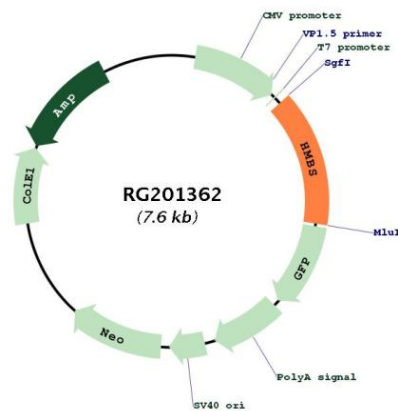
Domains: Porphobil_deam

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Porphyrin and chlorophyll metabolism

Gene Summary: This gene encodes a member of the hydroxymethylbilane synthase superfamily. The encoded protein is the third enzyme of the heme biosynthetic pathway and catalyzes the head to tail condensation of four porphobilinogen molecules into the linear hydroxymethylbilane. Mutations in this gene are associated with the autosomal dominant disease acute intermittent porphyria. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201362