

Product datasheet for **RG212662**

HMBS (NM_001024382) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMBS (NM_001024382) 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:	>RG212662 representing NM_001024382 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCGGTAACGGCAATGCGGCTGCAACGGCGGAAGAAAACAGCCAAAGATGAGAGTGATTCCGCTGG
GTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGACAGTGTGGTGGCAACATTGAAAGCCTCGTACCC
TGGCCTGCAGTTTAAAATCATTGCTATGTCCACCACAGGGGACAAGATTCTTGATACTGCACTCTCTAAG
ATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTTGAACATGCCCTGGAGAAGAATGAAGTGGACCTGGTTG
TTCACCTCTTGAAGGACCTGCCACTGTGCTTCTCCTGGCTTACCATCGGAGCCATCTGCAAGCGGGA
AAACCCTCATGATGCTGTGTCTTTACCCAAAATTTGTTGGGAAGACCCTAGAAACCCTGCCAGAGAAG
AGTGTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCAGCTGCAGAGAAAGTTCCCGCATCTGGAGTTCA
GGAGTATTCGGGGAAACCTCAACACCCGGCTTCGGAAGCTGGACGAGCAGCAGGAGTTTCACTGCCATCAT
CCTGGCAACAGCTGGCCTGCAGCGCATGGGCTGGCACAACCGGTGGGGCAGATCCTGCACCCTGAGGAA
TGCATGTATGCTGTGGCCAGGGGGCTTGGGCGTGGAAGTGGAGCCAAGGACCAGGACATCTTGGATC
TGGTGGGTGTGCTGCACGATCCCGAGACTCTGCTTCGCTGCATCGCTGAAAGGCCTTCTGAGGACCT
GGAAGGAGGCTGCAGTGTGCCAGTAGCCGTGCATACAGCTATGAAGGATGGGCAACTGTACCTGACTGGA
GGAGTCTGGAGTCTAGACGGCTCAGATAGCATACAAGAGACCATGCAGGCTACCATCCATGTCCCTGCC
AGCATGAAGATGGCCCTGAGGATGACCCACAGTTGGTAGGCATCACTGCTCGTAACATTCCAGAGGGCC
CCAGTTGGCTGCCAGAACTTGGGCATCAGCCTGGCCAACCTGTTGCTGAGCAAAGGAGCAAAAACATC
CTGGATGTTGCACGGCAGCTTAACGATGCCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212662 representing NM_001024382
Red=Cloning site Green=Tags(s)

MSGNGNAAATAEENSPKMRVIRVGTRKSQLARIQTDSVVATLKASYPGLQFEIIAMSTTGDKILDALSK
 IGEKSLFTKELEHALEKNEVDLVHSLKDLPTVLPFGFTIGAICKRENPHDAVVFHPKFVGKTLETLPK
 SVVGTSSLRRAAQLQRKFPHFLEFRSIRGNLNTRLRKLDEQQEFSAILATAGLQRMGWHNRVQIILHPEE
 CMYAVGQGALGVEVRAKDQDILDVLVGLHDPETLLRRCIAERAFLRHLEGGCSVPVAVHTAMKDGQLYLTG
 GVWSLDGSDSIQETMQATIHVPAQHEDGPEDDPQLVGITARNIPRGPQLAAQNLGISLANLLL SKGAKNI
 LDVARQLNDAH

TRTRPLE - GFP Tag - V

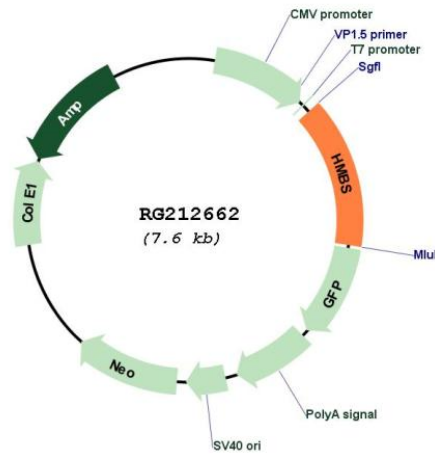
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001024382

ORF Size:	1032 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_001024382.1 , NP_001019553.1
RefSeq Size:	1428 bp
RefSeq ORF:	1035 bp
Locus ID:	3145
UniProt ID:	P08397
Cytogenetics:	11q23.3
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]