

Product datasheet for **RC232477**

HMBS (NM_001258208) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HMBS (NM_001258208) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HMBS
Synonyms: PBG-D; PBGD; PORC; UPS
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232477 representing NM_001258208
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGGTAACGGCAATGCGGCTGCAACGGCGGAAGAAAACAGCCAAAGATGAGAGTGATTTCGCGTGG
GTACCCGCAAGAGCCAGCTTGTCTGCATACAGACGGACAGTGTGGTGGCAACATTGAAAGCCTCGTACCC
TGGCCTGCAGTTGAAATCATTGCTATGTCCACCACAGGGGACAAGATTCTTGATACTGCACTCTCTAAG
ATTGGAGAGAAAAGCCTGTTACCAAGGAGCTTGAACATGCCCTGGAGAAGAATGAAGTGGACCTGGTTG
TTCACCTCCTGAAGGACCTGCCACTGTGCTTCTCCTGGCTTACCATCGGAGCCATCTGCAAGCGGGA
AAACCCTCATGATGCTGTTGTCTTTACCCAAAATTTGTTGGGAAGACCCTAGAAACCCTGCCAGAGAAG
AGTGTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCAGCTGCAGAGAAAGTTCCCGCATCTGGAGTTCA
GGAGTATTCGGGGAAACCTCAACACCCGGCTTCGGAAGCTGGACGAGCAGCAGGAGTTCACTGCCATCAT
CCTGGCAACAGCTGGCCTGCAGCGCATGGGCTGGCACAACCGGTGGGGCAGATCCTGCACCCTGAGGAA
TGCATGTATGCTGTGGCCAGGAAGGAGGCTGCAGTGTGCCAGTAGCCGTGCATACAGCTATGAAGGATG
GGCAACTGTACCTGACTGGAGGAGTCTGGAGTCTAGACGGCTCAGATAGCATAACAAGACCATGCAGGC
TACCATCCATGTCCTGCCAGCATGAAGATGGCCCTGAGGATGACCCACAGTTGGTAGGCATCACTGCT
CGTAACATTCCACGAGGGCCCCAGTTGGCTGCCAGAACTTGGGCATCAGCCTGGCCAACCTGTTGCTGA
GCAAAGGAGCCAAAAACATCCTGGATGTTGCACGGCAGCTTAACGATGCCCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232477 representing NM_001258208
Red=Cloning site Green=Tags(s)

MSGNGNAAATAEENSPKMRVIRVGRKSQLARIQTDSSVATLKASYPGLQFEIIAMSTTGDKILDALSK
 IGEKSLFTKELEHALEKNEVDLVHSLKDLPTVLPFGFTIGAICKRENPHDAVVFHPKFVGTLETLPK
 SVVGTSSLRRAAQLQRKFPHEFRSIRGNLNTRLRKLDEQQEFSAILATAGLQRMGWHNRVQIILHPEE
 CMYAVGQEGGCSVPVAVHTAMKDGQLYL TGGVWSLDGSDSIQETMQATIHVPAQHEDGPEDDPQLVGITA
 RNIPRGPQLAAQNLGISLANLLLSKGAKNILDVARQLNDAH

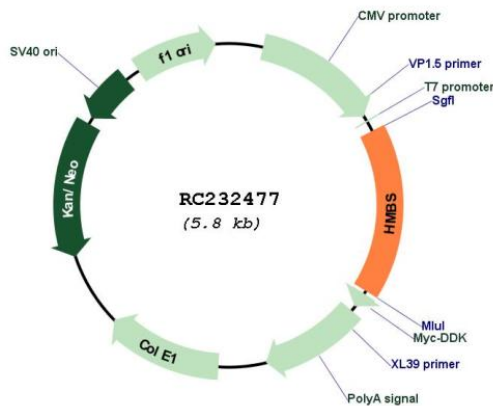
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001258208

ORF Size: 963 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_001258208.1 , NP_001245137.1
RefSeq Size:	1406 bp
RefSeq ORF:	966 bp
Locus ID:	3145
UniProt ID:	P08397
Cytogenetics:	11q23.3
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Porphyrin and chlorophyll metabolism
MW:	35.3 kDa
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]