

Product datasheet for SC302245

HMBS (NM_001024382) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMBS (NM_001024382) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMBS
Synonyms:	PBG-D; PBGD; PORC; UPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302245 representing NM_001024382. Blue=Insert sequence Red=Cloning site Green=Tag(s)

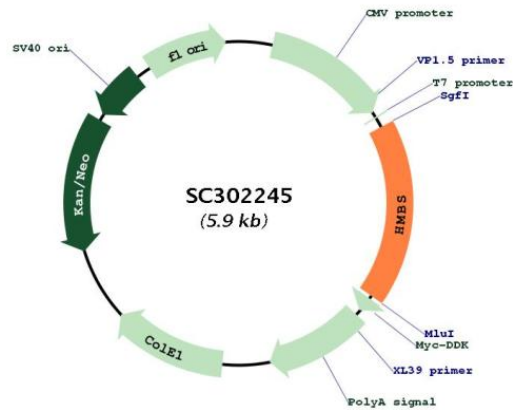
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GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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ACATTGAAAGCCTCGTACCCTGGCCTGCAGTTTAAAATCATTGCTATGTCCACCACAGGGGACAAGATT
CTTGATACTGCACTCTAAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTTGAACATGCCCTGGAG
AAGAATGAAGTGGACCTGGTTGTTCACTCCTTGAAGGACCTGCCACTGTGCTTCTCCTGGCTTACC
ATCGGAGCCATCTGCAAGCGGGAAAACCTCATGATGCTGTTGTCTTTCACCCAAAATTTGTTGGGAAG
ACCCTAGAAAACCTGCCAGAGAAGAGTGTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCAGCTGCAG
AGAAAGTTCCCGCATCTGGAGTTCAGGAGTATTCGGGGAAACCTCAACACCCGGCTTCGGAAGCTGGAC
GAGCAGCAGGAGTTCAGTGCCATCATCCTGGCAACAGCTGGCCTGCAGCGCATGGGCTGGCACAACCGG
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CGAGCCAAGGACCAGGACATCTTGGATCTGGTGGGTGTGCTGCACGATCCCAGACTCTGCTTCGCTGC
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ACCATGCAGGCTACCATCCATGTCCCTGCCAGCATGAAGATGGCCCTGAGGATGACCCACAGTTGGTA
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AACTTGTGCTGAGCAAAGGAGCCAAAACATCCTGGATGTTGCACGGCAGCTAACGATGCCCATTA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001024382

Insert Size: 1035 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001024382.1](#)

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

MW: 37.7 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]
Transcript Variant: This variant (2) contains an alternate, in-frame exon in the 5' coding region and uses a downstream start codon, compared to variant 1. It encodes isoform 2, which has a shorter N-terminus compared to isoform 1.