

## Product datasheet for **SC330637**

### HMBS (NM\_001258209) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HMBS (NM\_001258209) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** HMBS  
**Synonyms:** PBG-D; PBGD; PORC; UPS  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330637 representing NM\_001258209.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

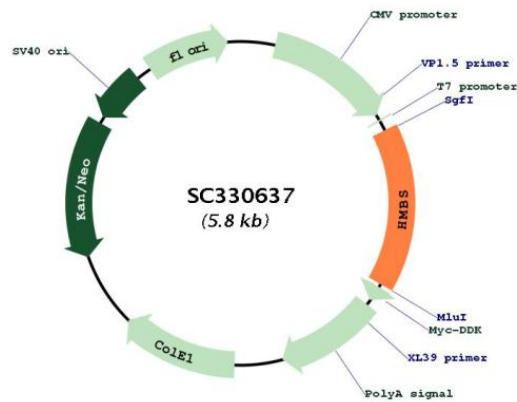
```
ATGAGAGTGATTCGCGTGGGTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGACAGTGTGGTGGCA
ACATTGAAAGCCTCGTACCCTGGCCTGCAGTTTAAAATCATTGCTATGTCCACCACAGGGACAAGATT
CTTGATACTGCACTCTAAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTTGAACATGCCCTGGAG
AAGAATGAAGTGGACCTGGTTGTTCACTCCTTGAAGGACCTGCCACTGTGCTTCCTCCTGGCTTACC
ATCGGAGCCATCTGCAAGCGGGAAAACCCTCATGATGCTGTTGTCTTTCACCCAAAATTTGTTGGGAAG
ACCCTAGAAAACCCTGCCAGAGAAGAGTGTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCAGCTGCAG
AGAAAGTTCCCGCATCTGGAGTTCAGGAGTATTCGGGGAAACCTCAACACCCGGCTTCGGAAGCTGGAC
GAGCAGCAGGAGTTCAGTGCCATCATCCTGGCAACAGCTGGCCTGCAGCGCATGGGCTGGCAACAACCGG
GTGGGGCAGATCCTGCACCCTGAGGAATGCATGTATGCTGTGGGCCAGGAAGGAGGCTGCAGTGTGCCA
GTAGCCGTGCATACAGCTATGAAGGATGGGCAACTGTACCTGACTGGAGGAGTCTGGAGTCTAGACGGC
TCAGATAGCATACAAGAGACCATGCAGGCTACCATCCATGTCCCTGCCAGCATGAAGATGGCCCTGAG
GATGACCCACAGTTGGTAGGCATCACTGCTCGTAACATTCCACGAGGGCCCCAGTTGGCTGCCAGAAC
TTGGGCATCAGCCTGGCCAACCTGTTGCTGAGCAAAGGAGCCAAAACATCCTGGATGTTGCACGGCAG
CTTAACGATGCCATTAA
```

**Restriction Sites:** SgfI-MluI



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## Plasmid Map:



**ACCN:** NM\_001258209

**Insert Size:** 915 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).

**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:	<a href="#">NM_001258209.1</a>
RefSeq Size:	1497 bp
RefSeq ORF:	915 bp
Locus ID:	3145
UniProt ID:	<a href="#">P08397</a>
Cytogenetics:	11q23.3
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Porphyrin and chlorophyll metabolism
MW:	33.3 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) uses an alternate splice junction at the 3' end of the first exon and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (4) is shorter at the N-terminus and lacks an alternate internal segment compared to isoform 1.</p>