

Product datasheet for MR223896

Hmbs (NM_013551) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmbs (NM_013551) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hmbs
Synonyms:	PBGD; T25658; Ups; Uros1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223896 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGGTAACGGCGCGCGGCCACAACCGGGAAGAAAACGGCTCAAAGATGAGGGTGATTTCGAGTGG
GCACCCGTAAGAGCCAGCTGGCTCGCATACAGACCGACTGTGGTGGCGATGCTGAAAGCCTTGATCC
TGGCATAAGTTGAAATCATTGCTATGTCCACCGGGAGACAAGATTCTTGATACTGCACTCTCTAAG
ATTGGAGAGAAGAGCCTGTTACCAAGGAGCTAGAAAACGCCCTGGAAAAAACGAAGTGGACCTGGTCC
TTCACCTCCTGAAGGATGTGCCTACCATACTACCTCCTGGCTTTACTATTGGAGCCATCTGCAAACGGGA
AAACCCCTGTGATGCTGTGCTTTACCCAAAGTTTATTGGAAAGACCCCTGGAAACCTTGCCAGAGAAA
AGTGCCCGTGGGAACAGCTCTCTGAGGAGAGTGGCTCAGCTACAGAGAAAGTTCCCCACCTGGAATTCA
AGAGTATTCGGGGAAACCTCAACACCCGCTCCGGAAGCTGGATGAGCTGCAGGAATTCAGTGCCATCGT
CCTGGCTGTGGCTGGCCTACAGCGCATGGGCTGGCAGAACCGGTGGGCCAGATTTGCACCCAGAAGAA
TGCATGTATGCTGTGGGTGAGGAGCCCTAGCCGTGGAAGTCCGAGCCAAGGACCAGGATATCTTGACC
TAGTGAGTGTGTGCACGATCCTGAACTCTGCTTCGCTGCATTGCTGAAAGGGCTTTCTGAGGCACCT
GGAAGGAGGCTGCAGCGTGCCCGTAGCAGTGCATACAGTATGAAAGATGGCAACTGTACCTGACTGGT
GGAGCTGGAGTCTAGATGGCTCAGATAGCATGCAAGAGACTATGCAGGCCACCATCCAGGTCCTGTTT
AGCAAGAAGATGGTCCAGAAGATGACCCACAACCTGGTTGGAATCACTGCCGTAACATTCCAAGAGGAGC
CCAGCTAGCTGCTGAGAACCTGGGCATCAGCCTGGCCAGCTTGCTGCTCAACAAAGGAGCCAAGAACATC
CTGGATGTTGCACGGCAGCTTAATGATGTGCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223896 protein sequence
Red=Cloning site Green=Tags(s)

MSGNGGAATTAENGSKMRVIRVGRKSQLARIQTDTVVAMLKALYPGIQFEIIAMSTTGDKILDALS
 IGEKSLFTKELENALEKNEVDLVHSLKDVPTILPPGFTIGAICKRENPCDAVVFHPKFIGKTLETLP
 SAVGTSSLRRVAQLQRKFPHELFKSIRGNLNTRLRKLDELQEFSAIVLAVAGLQRMGWQNRVQIILHPEE
 CMYAVGQGalAVEVRAKDQDILDVSVLHDPETLLRRCIAERAFLRHLEGGCSVPVAVHTVMKDGQLYLTG
 GVWSLDGSDSMQETMQATIQVPVQVEDGPEDDPQLVGITARNIPRGAQLAENLGISLASLLLNKGA
 KNI
 LDVARQLNDVR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013551

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_013551.2](#), [NP_038579.2](#)

RefSeq Size: 1611 bp

RefSeq ORF: 1086 bp

Locus ID: 15288

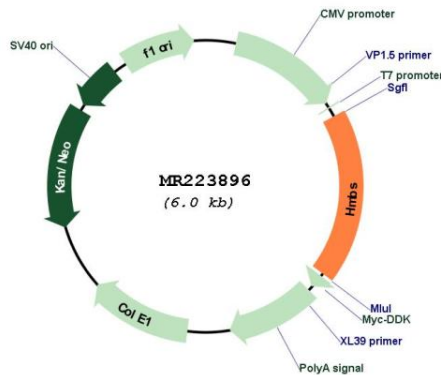
UniProt ID: [P22907](#)

Cytogenetics: 9 24.84 cM

MW: 39.3 kDa

Gene Summary: Tetrapolymerization of the monopyrrole PBG into the hydroxymethylbilane pre-uroporphyrinogen in several discrete steps.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223896