

Product datasheet for MR205397

Cpox (NM_007757) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpox (NM_007757) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cpox
Synonyms:	cac; Cpo; CPX; HCP; nct
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205397 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCCCAAGAGCTCGGGGGCGGGAGCCCCTCACCTGGACGGCGGGAGGAGGACGGGGACGAGCTGG
CCCGCCGTGCAGCACCTTCATGTCTCGCCGGTGACCGAGCTGCGGGAGCTGCGGAGGAGCCGGAGGA
CATGAAGACCAAGATGGAGCTGATGATTATGGAGACCCAGGCTCAGGTGTGTCGGGCACTGGCGCAGGTA
GATGGCGTTGCCGACTTCACTGTGGACCGTGGGAGAGGAAAGAAGGAGGAGGTGGCATCACCTGTGTGC
TTCAGGACGGCGTGTGTTTAAAAGGCCGGGGTGGAGCATTTCCGTCGTTTCATGGGAATCTTTCTGAGGA
AGCAGCGAACCAATGAGAGGCAGAGGCAAACTCTGAAGACGAAAGATAGTAAATTGCCATTTACTGCT
ATGGGTGTAAGTTCTGTGATTCACCCCAAGAATCCTTATGCGCCACCATGCATTTCAACTACAGATACT
TTGAAGTAGAGGAAGCTGACGGTAACACACACTGGTGGTTTGGGGTGGCTGTGACCTCACACCGACATA
CTTGAACCAAGAGGATGCTGTCCATTTCCACCGTACTCTAAAGGAAGCTTGGCATCAGCATGGGCCAGAC
ATCTACCCAAAGTTTAAAAATGGTGTGACGACTACTTTTATAGTTACCCGCGGGAGCGGAGGGGCA
TCGGCGGCATCTTTTTGACGATCTTGACTCCCCTCCAAGGAGGAGGCTTTCCGCTTCGTGAAGACGTG
TGCTGAGGCTGTGGTCCCTTCTATGTTCCCATGTGAAGAAGCACTGCGATGACTCCTACACCCCAAG
GACAAGCTGTGGCAGCAGCTGAGGAGAGGGCGGTATGTGGAGTTAATCTGTTGTATGATCGGGGACCA
AGTTTGGCTCTTACTCCAGGATCCAGGATCGAAAGTATCTTGATGTCTTTACCTTAACAGCAAGATG
GGAGTACATGCATTCTCCCCAGAGAATTCCAAAGAAGCTGAAATCTGGAAGTGTTCGCCATCCAAAG
GACTGGGTGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205397 protein sequence
 Red=Cloning site Green=Tags(s)

MVPKSSGARSPPSPGREEDGDELARRCSTFMSSPVTELRELRPRPDMKTKMELMIMETQAQVCRALAQV
 DGVADFTVDRWERKEGGGGITCVLQDGRVFEKAGVSI SVVHGNLSEEAANQMRGRGKTLTKD SKLPFTA
 MGVSSVIHPKNPYAPTMHFNYRYFEVEEADGNTHWWFGGGCDL TPTYLNQEDAVHFHRTLKEACDQHGPD
 IYPKFKKWCDYFFIVHRGERRGIGGIFDLDSPSKEEAFRVKTCAEAVVPSYVPIVKKHCDDSYTPR
 DKLWQQLRRGRYVEFNLLYDRGTFKGLF TPGSRIESILMSLPLTARWEYMHSPPENSKAEILEVLRHPK
 DWVH

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_007757

ORF Size: 1065 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_007757.1, NP_031783.1](#)

RefSeq Size: 3186 bp

RefSeq ORF: 1332 bp

Locus ID: 12892

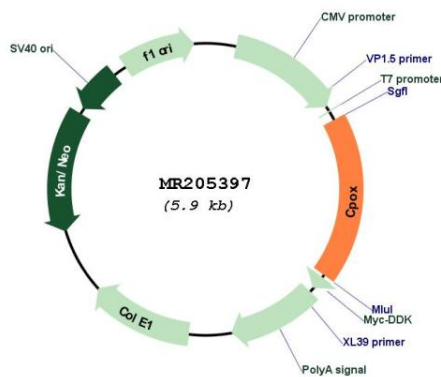
UniProt ID: [P36552](#)

Cytogenetics: 16 C1.2

MW: 40.6 kDa

Gene Summary: Involved in the heme biosynthesis. Catalyzes the aerobic oxidative decarboxylation of propionate groups of rings A and B of coproporphyrinogen-III to yield the vinyl groups in protoporphyrinogen-IX (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205397