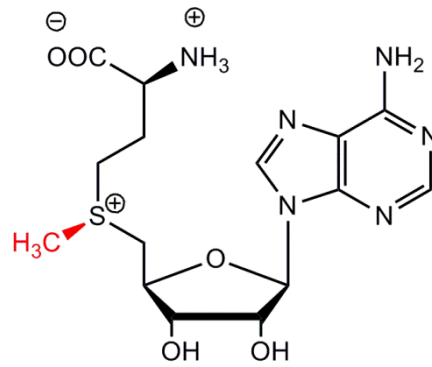


## Supplementary Material

Supplementary Figure 1. *S*-Adenosyl-L-methionine (SAM).



**Supplementary Table 1.** Sequence of C-terminally Strep tagged CouO protein. The linker region (SA) is shown italic and the streptavidin binding peptide (WSHPQFEK) is underlined.

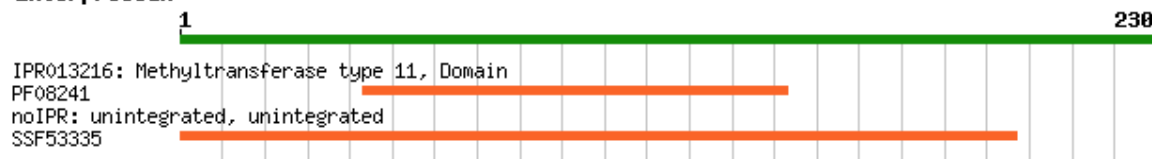
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KIEPITGSEAEAFHRMGSRAFERYNEFVDLLVGAGIADGQTVVDLCCGSGELEIILTSRFP SLNLVGVLDLSEDMVRIARDYAAE  
QGKELEFRHGDAQSPAGMEDLLGKADLVVSRHAFHRLTRLPAGFD TMLRLVKPGGAILNVSFLHLSDFDEPGFRTWVRFK  
ERPWDAEMQVAWALAHYYAPRLQDYRDALAADETPVSEQR IWVDDQGYGVATVKCFARRAAASAWWSHPQFEK

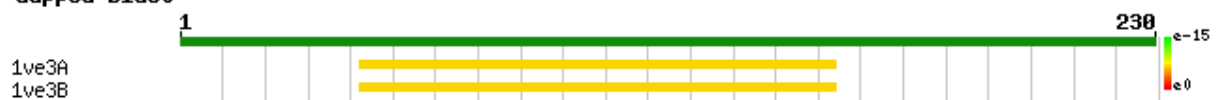
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**Supplementary Figure 2.** Automated template identification results at the SWISS-MODEL Workspace (Arnold *et al.*, 2006). Search results using Q9F8T9 as a template, from the top: InterproScan results (Zdobnov *et al.*, 2001), gapped BLAST result (highest score: 36/113 (PDB ID: 1ve3) 31% amino acid identity (Schäffer *et al.*, 2001)), Profile BLAST result (highest score: 34/135 (PDB ID: 1wzn) 25% amino acid identity (Altschul *et al.*, 1997)). Graphics results interpretation and the sequence matching statistics were generated using the SWISS-MODEL Workspace interface.

#### InterproScan



#### Gapped Blast



Profile Blast

