Supplemental Information for

**Characterisation of PduS, the *pdu* metabolosome corrin reductase, and evidence of substructural organisation of the enzyme within the bacterial microcompartment.**

by

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Table S1. List of primers used in the generation of the following mutants of PduS: C54A, C264A, C267A, C270A, C274A, C309A, C312A, C315A and C320A. The mutations were generated by use of the Quikchange II site directed mutagenesis kit (Stratagene). The mutants were prepared using pJP024 as a template and primers below.

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| CBFpduS\_C54A\_forward | 5’CAATGCGGCAGAAGCTGAGCCGATGCTG 3’ | TGT changes to GCT |
| CBF*pduS\_C54A\_reverse* | 3’CAGCATCGGCTCAGCTTCTGCCGCATTG 5’ | ACA changes to AGC |
| CBF*pduS\_C264A\_forward* | 5’CGCAAAAACCGTTGCCGAGCAGTGTCGG3’ | TGC changes to GCC |
| CBF*pduS\_C264A\_reverse* | 3’CCGACACTGCTCGGCAACGGTTTTTGCG5’ | GCA changes to GGC |
| CBF*pduS\_C267A\_forward* | 5’CCGTTTGCGAGCAGGCTCGGTTGTGTACGG 3’ | TGT changes to GCT |
| CBF*pduS\_C267A\_reverse* | 3’CCGTACACAACCGAGCCTGCTCGCAAACGG 5’ | ACA changes to AGC |
| CBF*pduS\_C270A\_forward* | 5’GCAGTGTCGGTTGGCTACGGATTTGTGCC 3’ | TGT changes to GCT |
| CBF*pduS\_C270A\_reverse* | 3’GGCACAAATCCGTAGCCAACCGACACTGC 5’ | ACA changes to AGC |
| CBF*pduS\_C274A\_forward* | 5’GTGTACGGATTTGGCCCCAAGACATTTG 3’ | TGC changes to GCC |
| CBF*pduS\_C274A\_reverse* | 3’CAAATGTCTTGGGGCCAAATCCGTACAC 5’ | GCA changes to GGC |
| CBF*pduS\_C309A\_forward* | 5’CGGCCCTGACCGCTTCAGAATGCAATG3’ | TGT changes to GCT |
| CBF*pduS\_C309A\_reverse* | 3’CATTGCATTCTGAAGCGGTCAGGGCCG5’ | ACA changes to AGC |
| CBF*pduS\_C312A\_forward* | 5’CCTGTTCAGAAGCCAATGTATGTG3’ | TGC changes to GCC |
| CBF*pduS\_C312A\_reverse* | 3’CACATACATTGGCTTCTGAACAGG5’ | GCA changes to GGC |
| CBF*pduS\_C315A\_forward* | 5’GAATGCAATGTAGCTGAAAGCGTAGC3’ | TGT changes to GCT |
| CBF*pduS\_C315A\_reverse* | 3’GCTACGCTTTCAGCTACATTGCATTC5’ | ACA changes to AGC |
| CBF*pduS\_C320A\_forward* | 5’GTGAAAGCGTAGCCGCTCCGGTTGGGATTTC 3’ | TGT changes to GCC |
| CBF*pduS\_C320A\_reverse* | 3’GAAATCCCAACCGGAGCGGCTACGCTTTCAC 5’ | ACA changes to GGC |