**Supporting Information to**

**Biosynthesis of butyrate from methanol and carbon monoxide by recombinant *Acetobacterium woodii***

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Primers used in this study.

Supporting Information Table 1

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| Primer Name | Primer Sequence | Target geneSupplementary S3 |
| Elim 0537FqPCR | ACGCTATGGCTACAGAATGG | *Thiolase* |
| Elim 0537RqPCR | GCTTTACGGCTTGAGAAGATTG |  |
| Elim 0538FqPCR | GACCATTCGCTGCCTGATTA | *Hydroxybutyryl-CoA dehydrogenase* |
| Elim 0538RqPCR | GCGTCGTCCATACCCATTT |  |
| Elim 0834FqPCR | AACCAGATAGTTTTCGCTCCTTCGTTTTATTTTT | *Phosphobutyryl transferase* |
| Elim 0834RqPCR | CAGGCCTCGAGATCTCCATGGTTAGTCATACAGGGTTCCCAGC |  |
| 6kb\_For Ack | GTGTTAAATTTAAAGGGAGGACGGATCCGTGGCAAAAGAAGTAGTATTAG | *ELI0537-0542 forward primer* |
| 6Kb\_Rev\_Ack | TTCACTACAAAGTAACATTCCCTAACTCTATCTGGTTGCCATTTC | *ELI0537-0542 reverse primer* |
| pPtaAckfFor\_6kb | GATAAAATATTT CTAGACGAGCACTTTCAATATGATATT | P*pta-ack For* |
| pPtaAck Rev\_6kb | ACTACTTCTTTTGCCACGGATCCGTCCTCCCTTTAAATTTAACACAAAATT | P*pta-ack Rev* |
| 0834 For\_AwBut7 | GAAATGGCAACCAGATAGTTTTCGCTCCTTCGTTTTA | *ELI0834 for* |
| 0834Rev\_AwBut7 | CACTACAAAGTAACATTCCCTAACTTTAGTCATACAGGGTTCCC | *ELI0834 Rev* |