

1 **Supplemental Figure 1** - Chymotrypsin has a negative effect on IApc35 and BC2 biofilms, and
2 this effect is abrogated by either complementation with *mrkDIP* or the addition of
3 antichymotrypsin. **A.** IA565, IApc35, and BC2 biofilms were treated with chymotrypsin with
4 and without the addition of antichymotrypsin. Biofilm formation was measured as described
5 above. **B.** Biofilms of IA565 and IApc35 or BC2 (carrying pBMC12 or pBMC13) were
6 preformed in YEPD in 96-well microtiter plates at 37°C with shaking, and were treated after 16
7 hours by replacing the media with fresh YEPD or YEPD supplemented with the chymotrypsin in
8 the presence or absence of antichymotrypsin. Biofilm formation was measured after 16 hours by
9 staining with crystal violet and measurement at OD₅₇₀.

10 **Supplemental Figure 2** - Scanning electron micrographs illustrating mean cell length of *K.*
11 *pneumoniae* wildtype strain IA565 (**A**), BC2-pBMC12 (**B**) and BC2-pBMC13 (**C**).

12 **Supplemental Figure 3** – Effect of PAO1 supernatant on the monospecies biofilms of various
13 strains of *K. pneumoniae* carrying *mrkDIP* or *mrkDIC*. Supernatants derived from PAO1 or the
14 Δ *lasB* transposon mutant of PAO1 were used to treat each strain of *K. pneumoniae*, after 16
15 hours of biofilm growth. Biofilm formation was measured after 16 hours by staining with crystal
16 violet and measurement at OD₅₇₀.

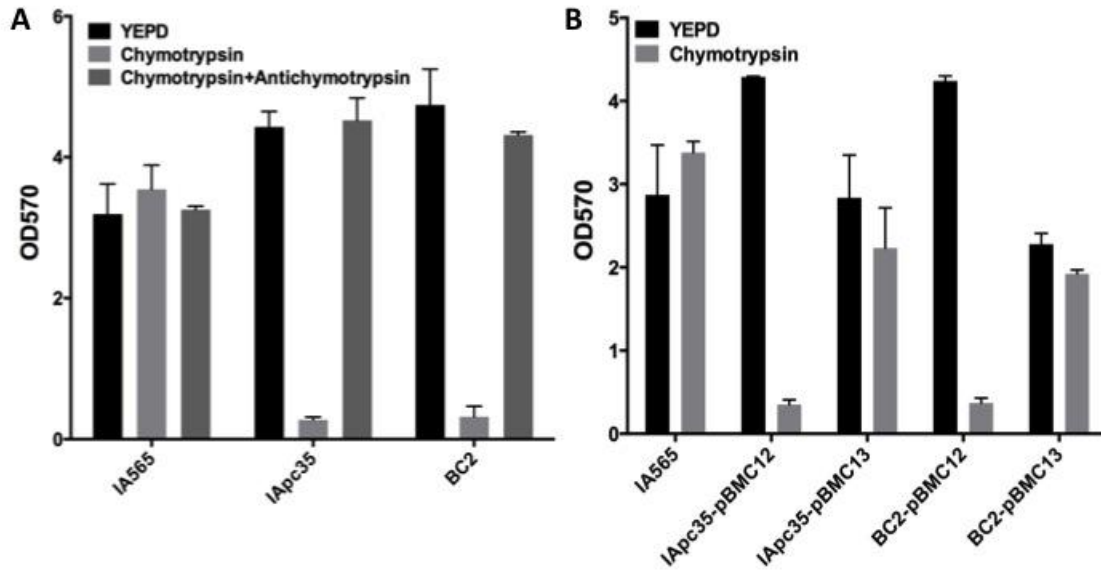
17 **Supplemental Figure 4** - Strains of *K. pneumoniae* carrying various combinations of *mrkDIC*
18 and *mrkDIP* are not defective for planktonic growth. Growth of planktonic *K.pneumoniae* was
19 measured in the presence of YEPD in 96-well microtiter plates at 37°C with shaking. Readings
20 were taken at OD₆₀₀ every hour.

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24 **Supp. Fig. 1**



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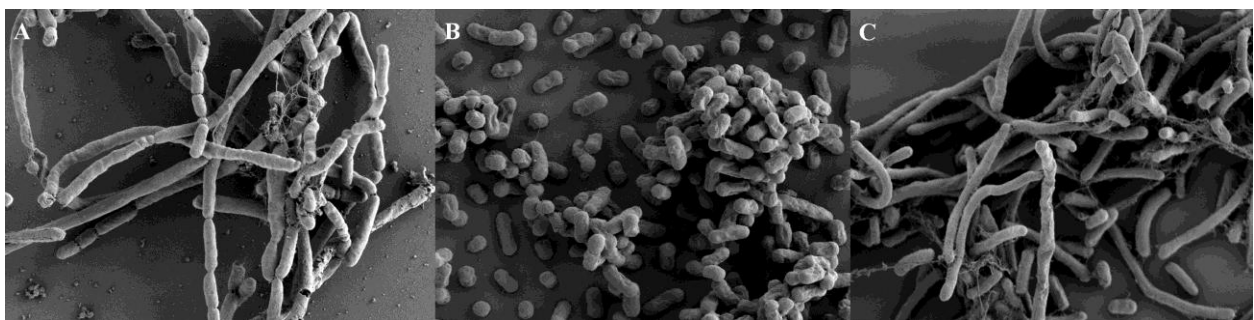
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30 **Supp. Fig. 2**

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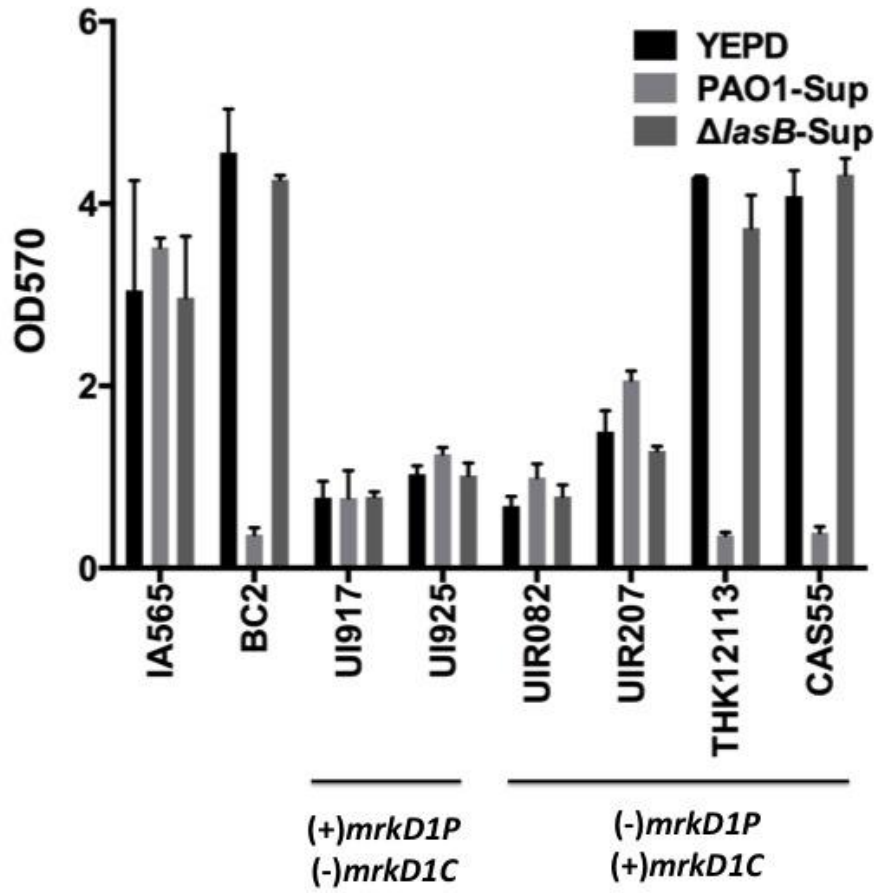
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37 Supp. Fig. 3

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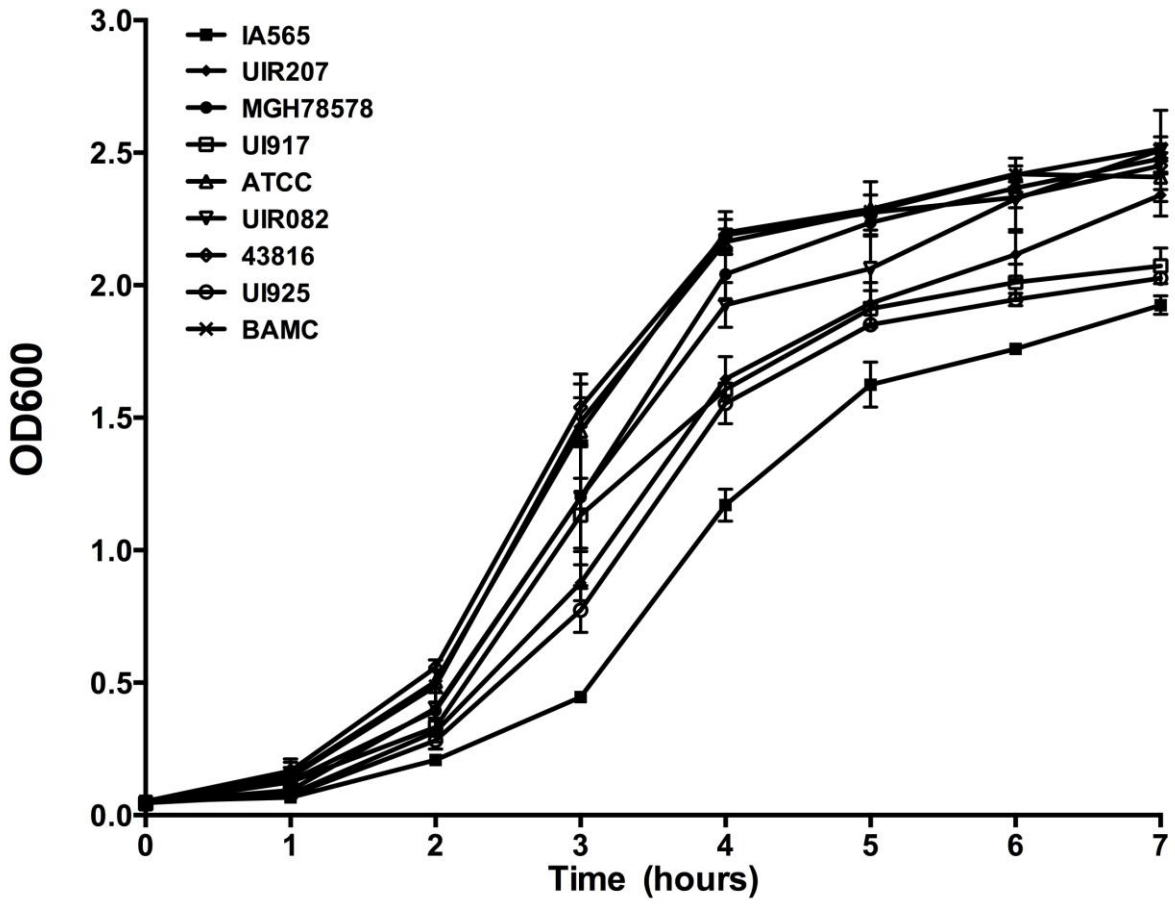
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49 Supp. Fig. 4



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