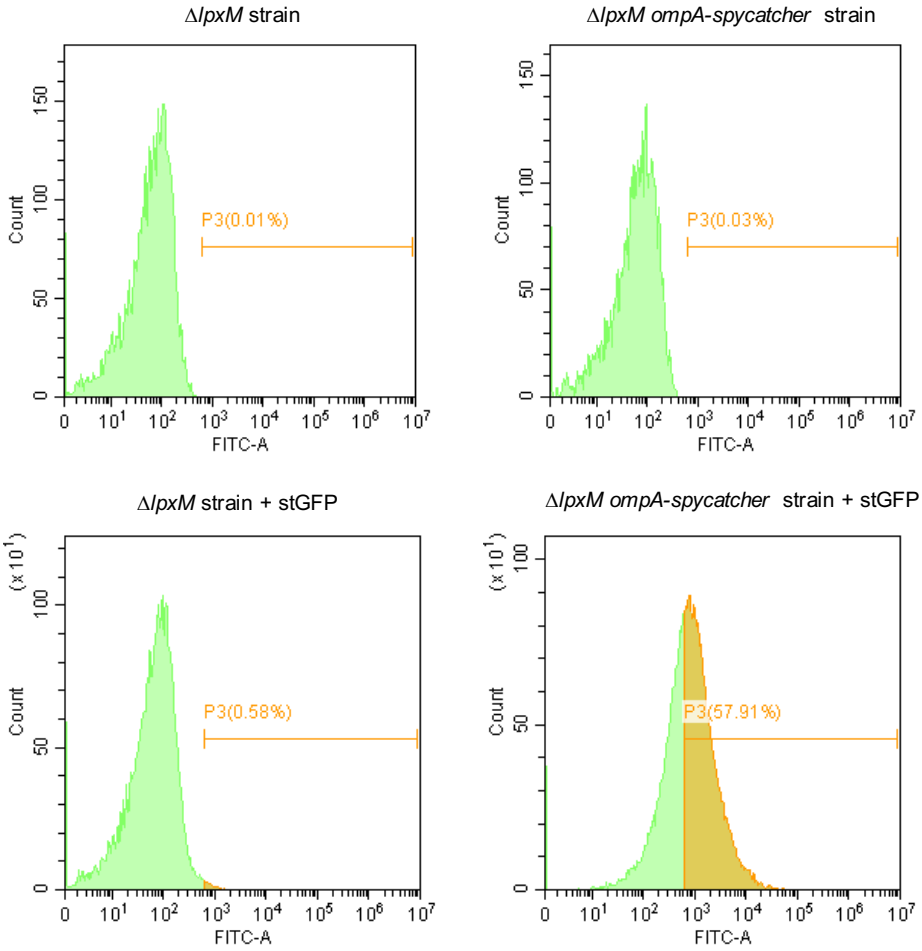
Supplementary Material

1 Supplementary Figures and Tables

1.1 Supplementary Figures



Supplementary Figure 1. Flow cytometry analysis of the assembly between *ΔlpxM* or *ΔlpxM ompA-spycatcher* strains with stGFP. Bacteria were collected and washed with PBS. Bacterial cell number for each group were adjusted to the same colony forming units (CFU) according to the OD_{600}. Bacteria were incubated with or without 5 μg stGFP at room temperature for 10 min. All samples were then washed three times with ice-cold PBS. The samples were subjected to flow cytometry analysis using FITC channel to detect the fluorescence.

1.2 Supplementary Tables

Supplementary Table 1. Bacterial strains and plasmids used in this study.

Strain Number	Genotype/Phenotype	Source
MG1655	Wild type *Escherichia coli*	Laboratory stock

JS09	MG1655 Δ*lpxM*	This study
JS72	MG1655 Δ*lpxM ompA-spycatcher::kan*	This study
pJS59	pET28a-spytag-gfp, Kan+	This study
pJS73	pET28a-spytag-sbi, Kan+	This study
pJS74	pET28a-spytag-esxA, Kan+	This study
pJS79	pET28a-spytag-spA, Kan+	This study

Supplementary Table 2. Primers used in this study.

Primers	Sequences
dellpxM-1	CACCAGATTGATTTTTGCCTTATCCGAAACTGGAAAAGCGCCGATCATATTCAATAACC
dellpxM-2	TTATCATCAGGCGAAGGCCTCTCCTCGCGAGAGGCTTTTAAGCTTATCGATACCGTCGA
Colony-lpxM-1	TAAACCAGCAGGCCGTAAAC
Colony-lpxM-2	CATCCGGCCTACAGTTCAAT
ompASC-1	GTGGACCAACAACATCGGTGACGCACACACCATCGGCACTGGCGGCGGCGGCAGCGGCGCCATGGTTGATACCTT
ompASC-2	GGTCGACGGATCCCCGGAATTTAGTGGTGGTGGTGGTGGTGGTCAATATGAGCGTCACCTT
KN-1	ATTCCGGGGATCCGTCGACC
KN-2	GGTAGGAAACACCCAGGCTCAGCATGCCGTTGTCCGGACGTGTAGGCTGGAGCTGCTTCG
Colony-ompA-1	GTTTCCGCGATTCTCTTCTG
Colony-ompA-2	TAATGCGGAACACCAGCATA
ST-gfp-1	TACAAGCCGACGAAGGGATCCGGCGGCGGCGGCAGCCGTAAAGGCGAAGAGCTGTT
ST-gfp-2	GTGCGGCCGCAAGCTTGTCGACTTTGTACAGTTCATCCATAC
ST-esxA-1	TACAAGCCGACGAAGGGATCCGGCGGCGGCGGCAGCGCAATGATTAAGATGAGTCC
ST-esxA-2	GTGCGGCCGCAAGCTTGTCGACTTGCAAACCGAAATTATTAG
ST-sbi-1	TACAAGCCGACGAAGGGATCCGGCGGCGGCGGCAGCAACCCAGACCGACGTGTTGCA
ST-sbi-2	GTGCGGCCGCAAGCTTGTCGACTACAAAGCGGTTGTTTTTATC
ST-SPA-1	TACAAGCCGACGAAGGGATCCGGCGGCGGCGGCAGCGCAAATGCTGCGCAACACGATGAAGCTAAAAA
ST-SPA-2	GTGCGGCCGCAAGCTTGTCGACTTTCGGTGCTTGAGATTCGT