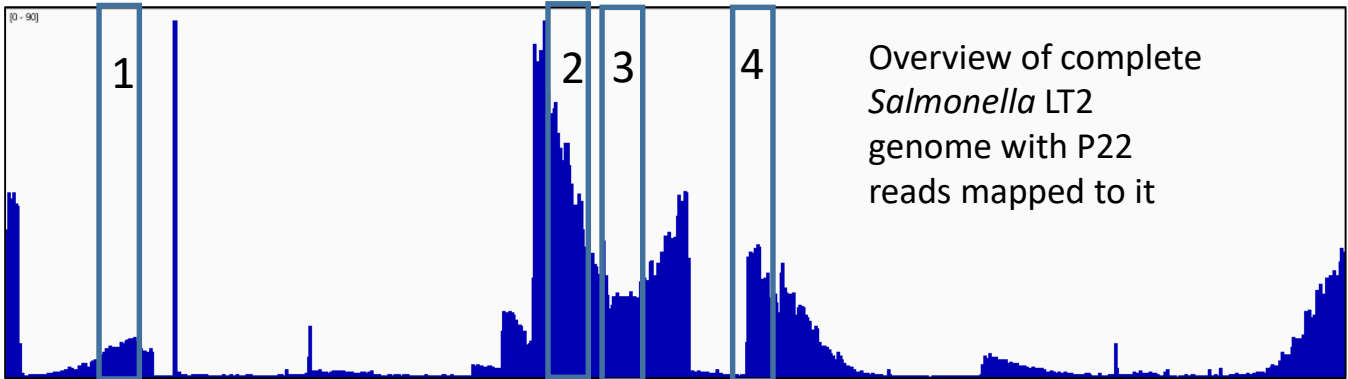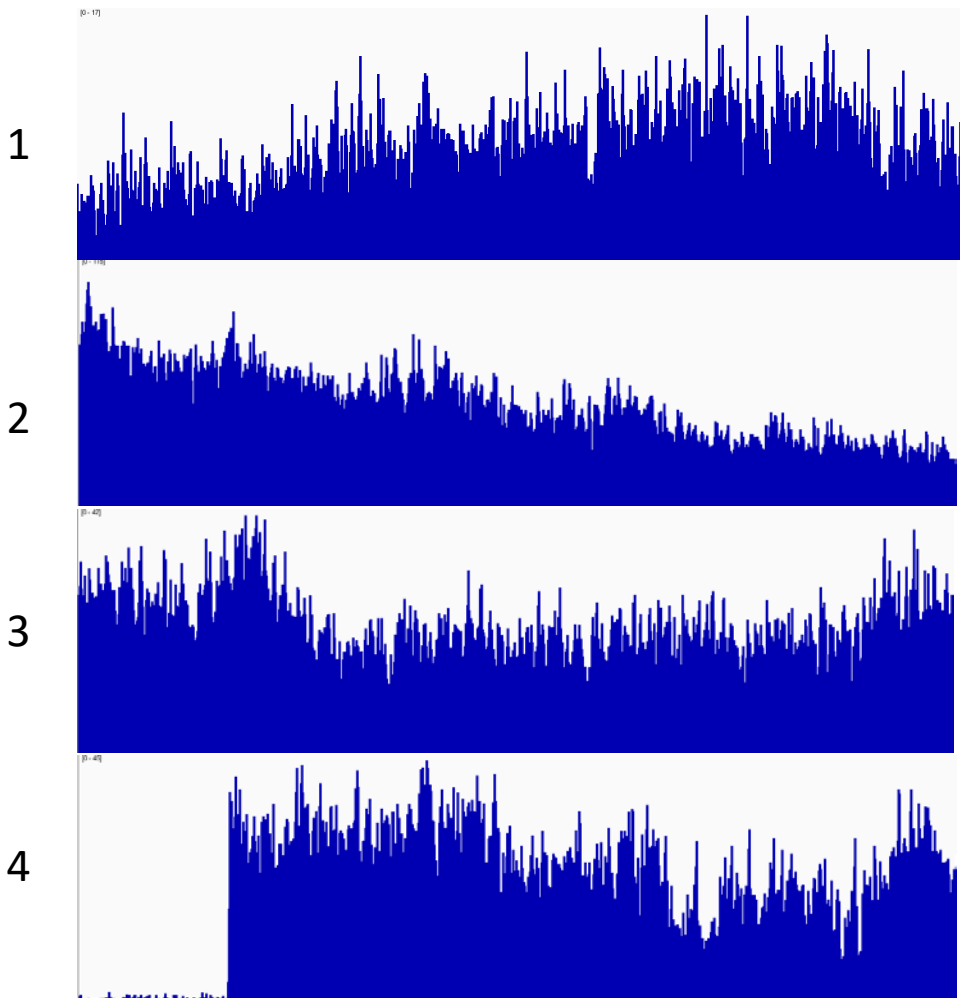**Figure S2:** Detection of generalized transduction and GTA-like read coverage patterns depending on contig length. Different contig length were simulated using the P22, P1 and PBSX transduction datasets.
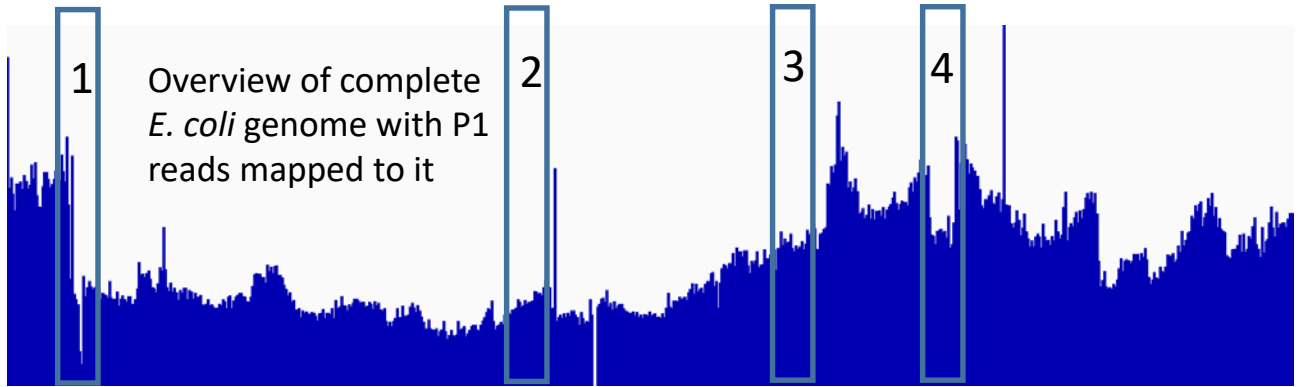
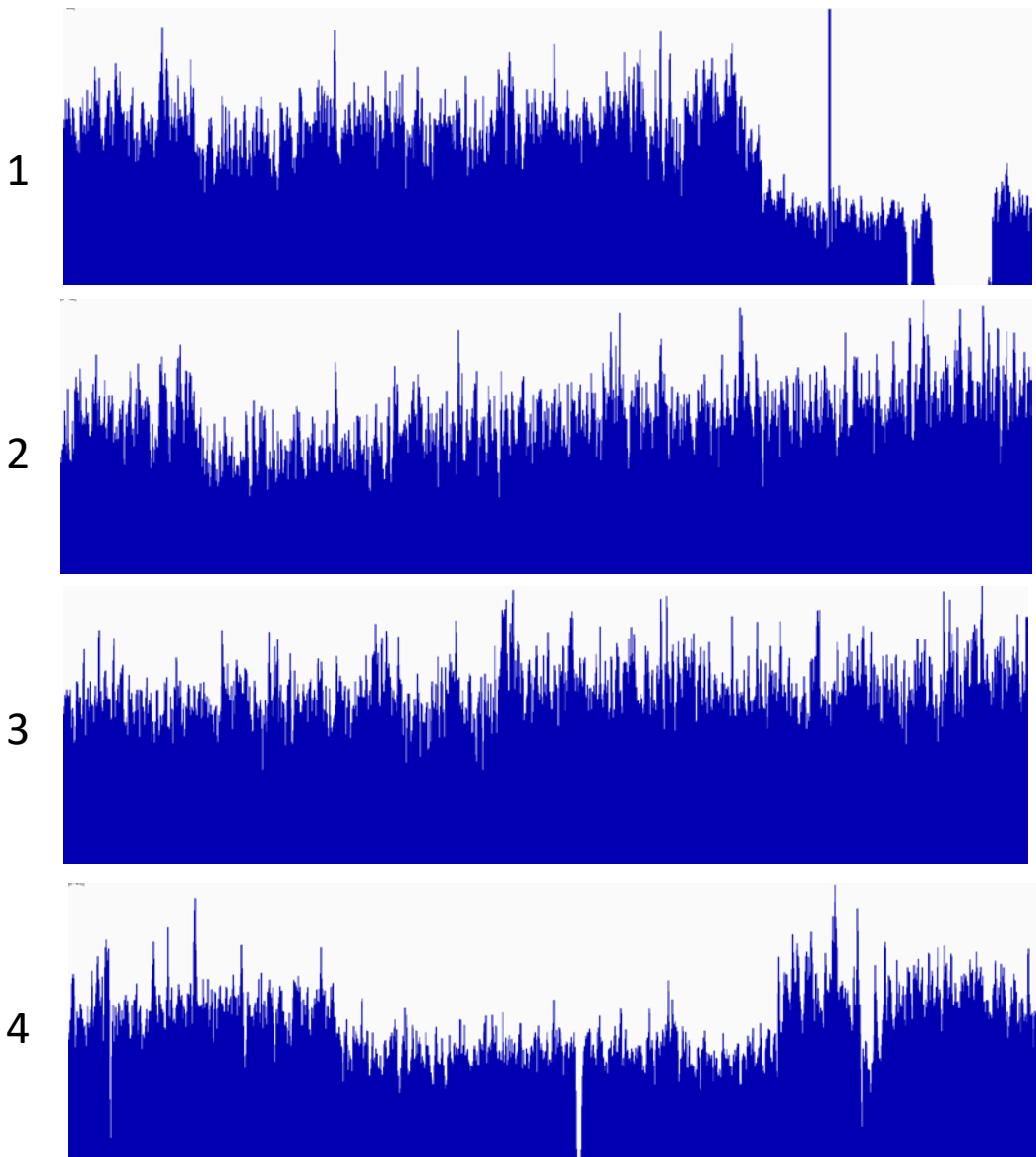a) Generalized transduction by phage P22

Enlargements of the four 200 kbp sections indicated above showing what the read coverage pattern would look like on a 200 kbp contig for specific regions within the generalized transduction pattern.

b) Generalized transduction by phage P1

1   Overview of complete *E. coli* genome with P1 reads mapped to it   2   3   4

Enlargements of the four 200 kbp sections indicated above showing what the read coverage pattern would look like on a 200 kbp contig for specific regions within the generalized transduction pattern.
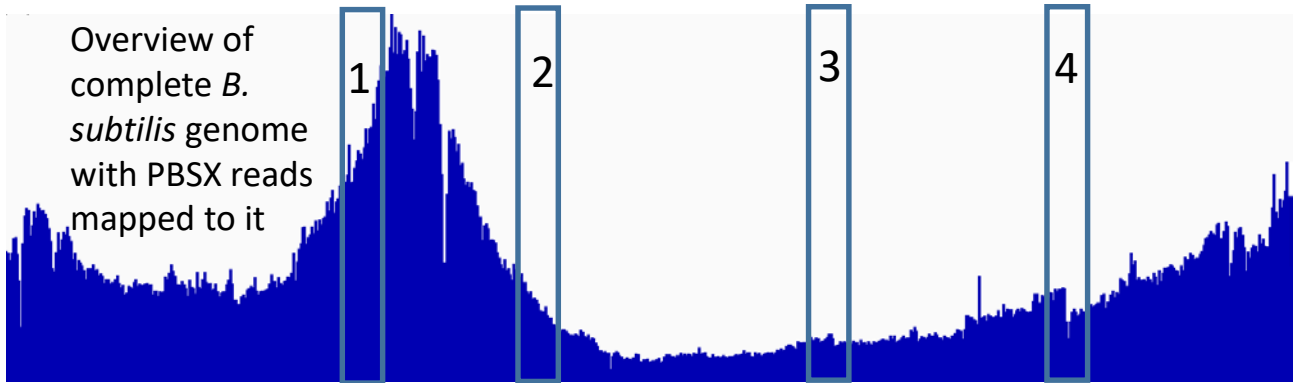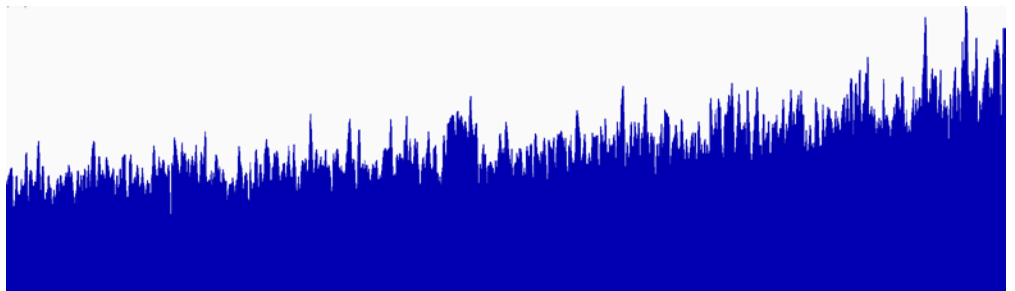

1

2

3

4

c) GTA-like DNA transport by defective prophage PBSX

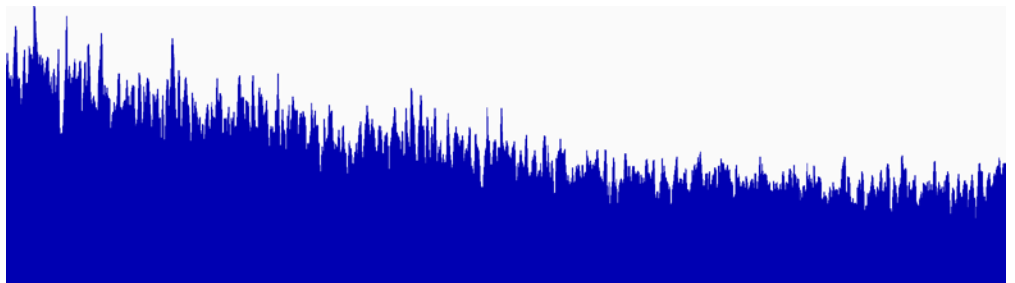Overview of complete *B. subtilis* genome with PBSX reads mapped to it

Enlargements of the four 200 kbp sections indicated above showing what the read coverage pattern would look like on a 200 kbp contig for specific regions within t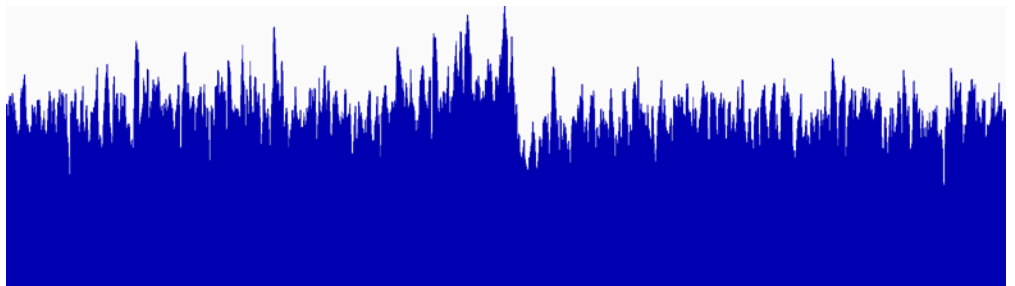he generalized transduction pattern.