Figure S1

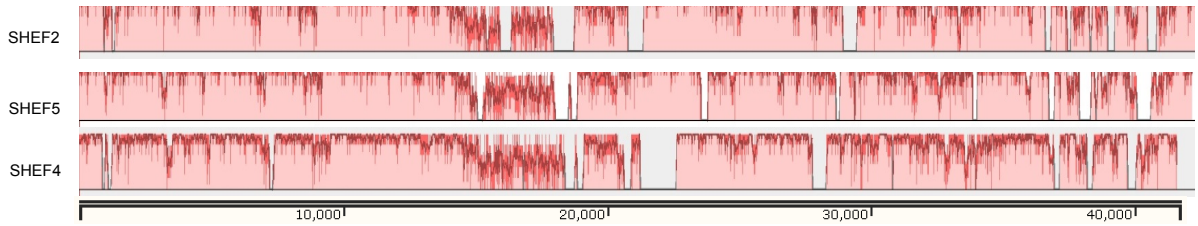
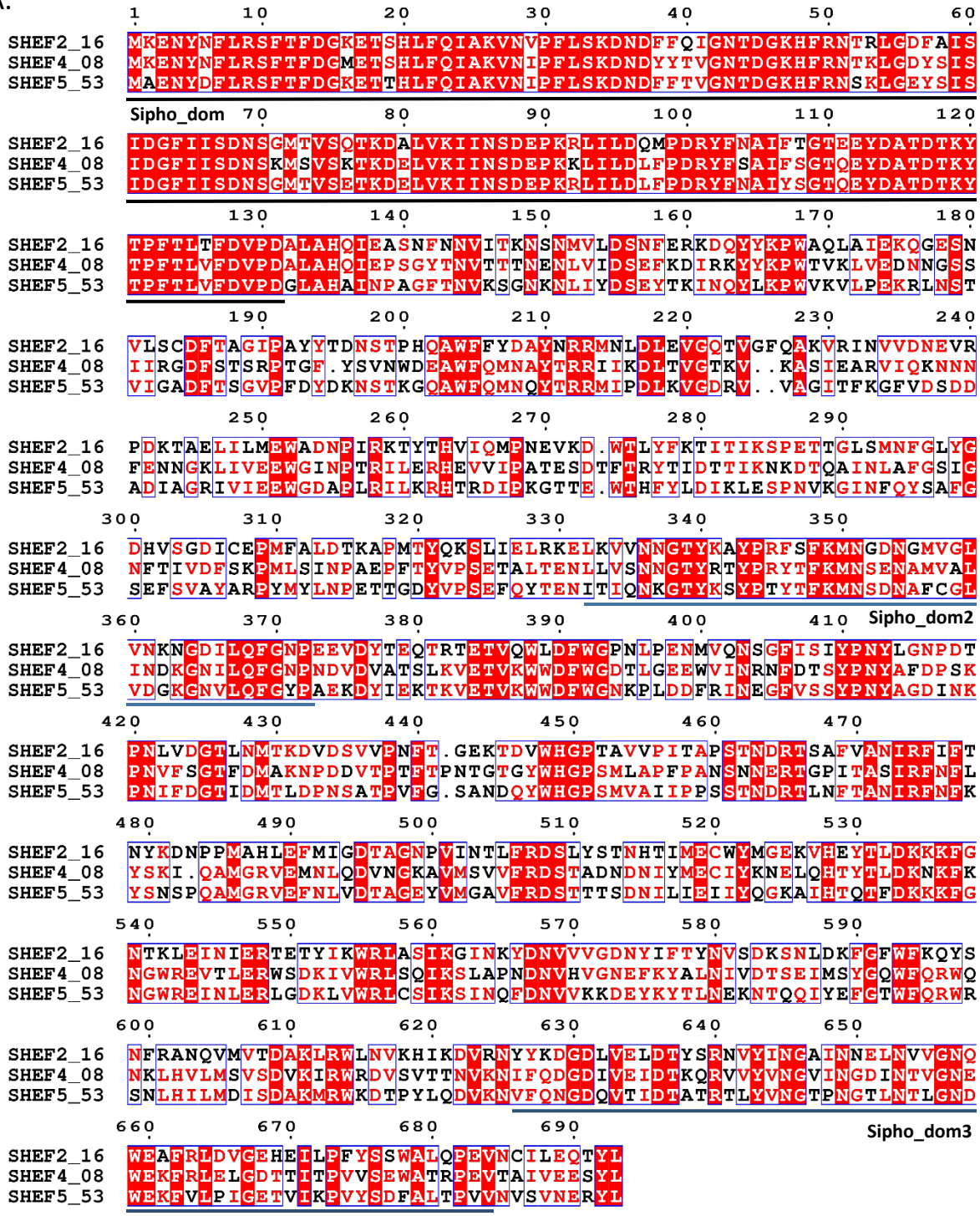


Figure S2

A.



B.

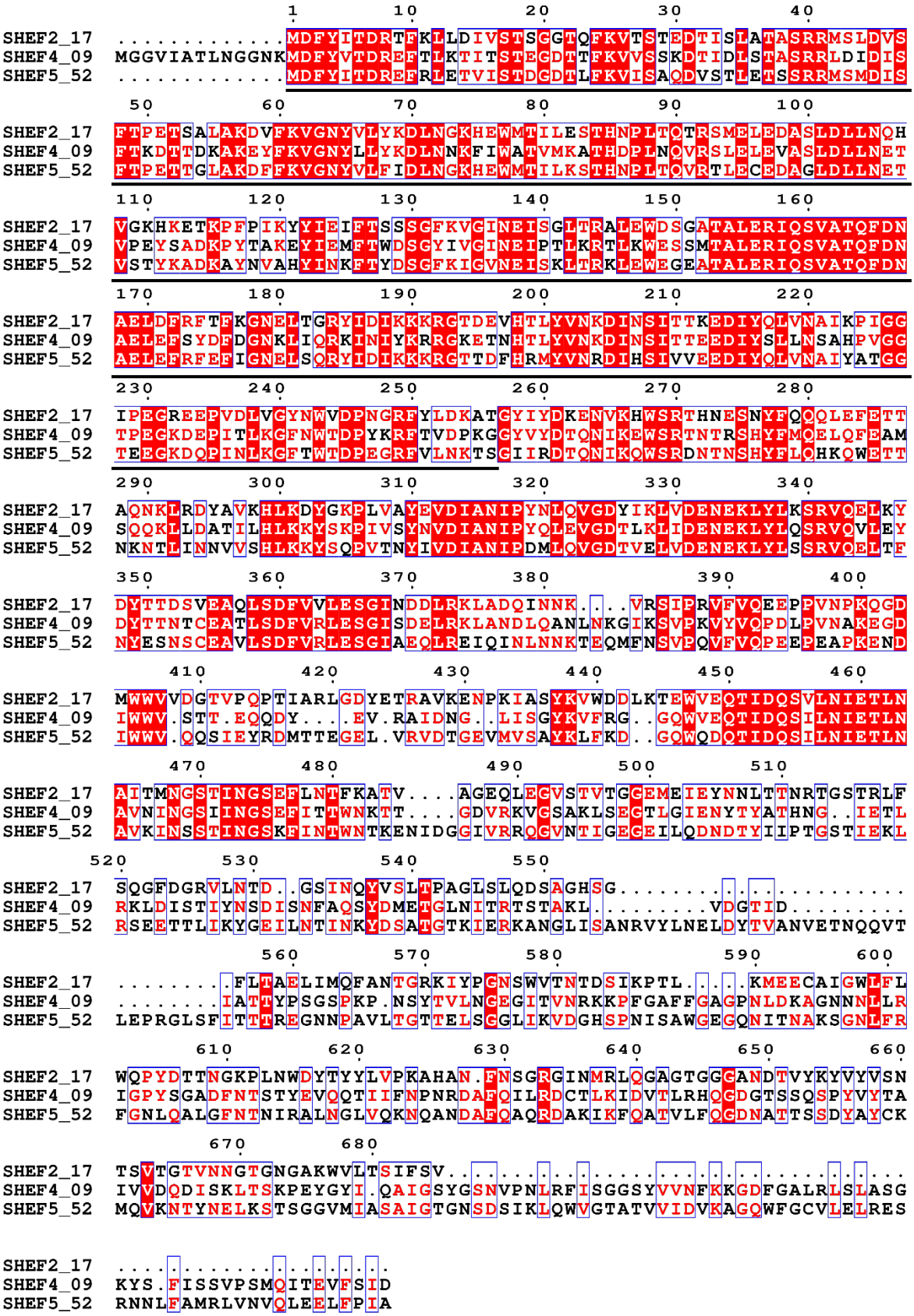
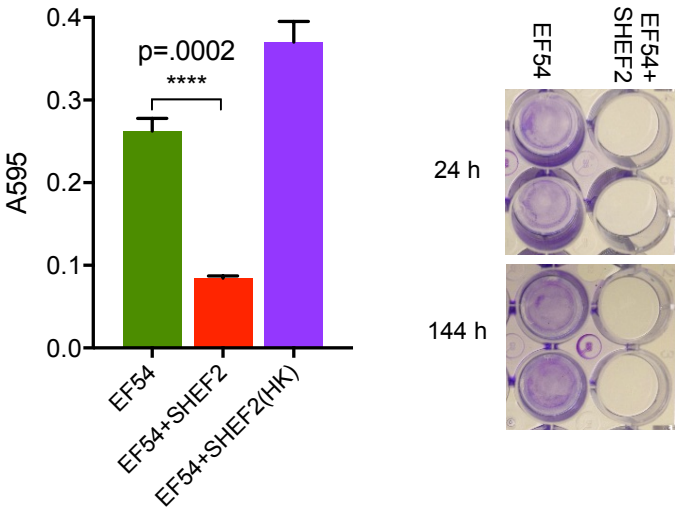
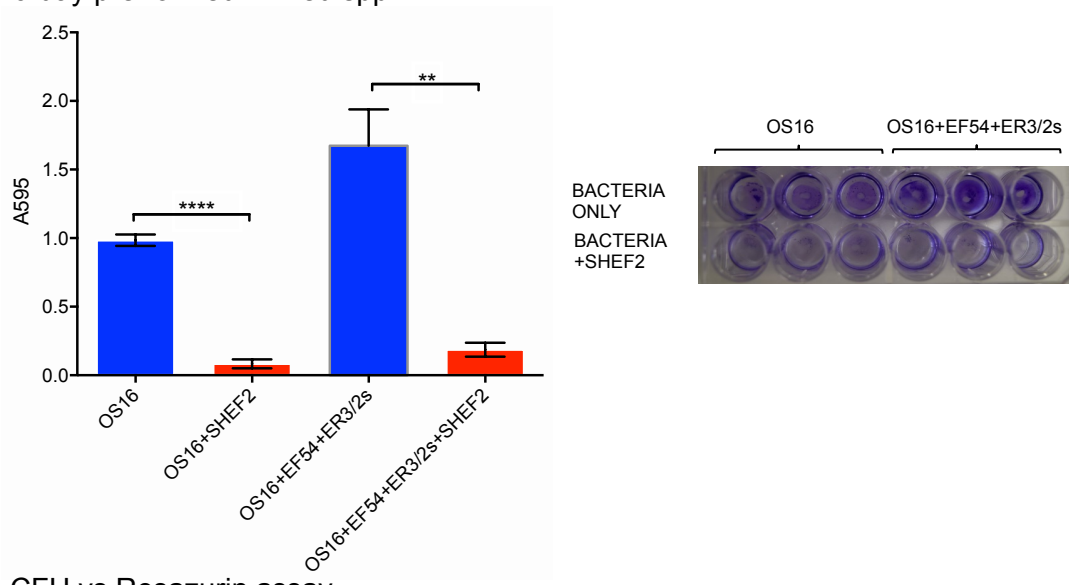


Figure S3

A. 6-day pre-formed




B. 6-day pre-formed- Mixed spp.




C. CFU vs Resazurin assay

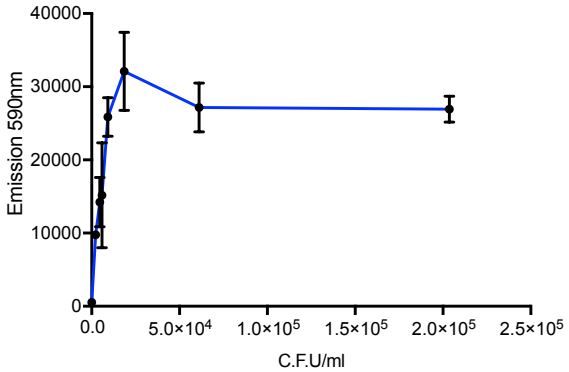


Figure S4

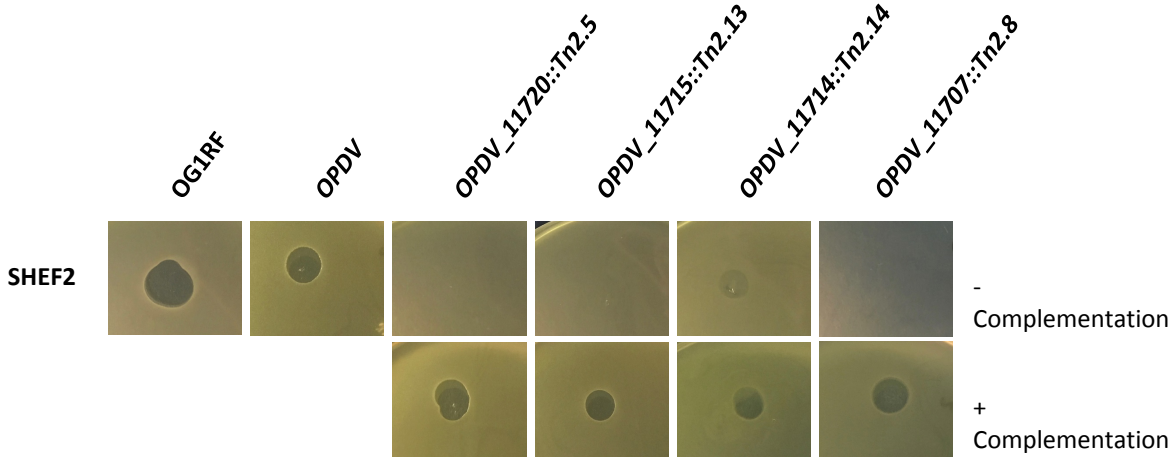
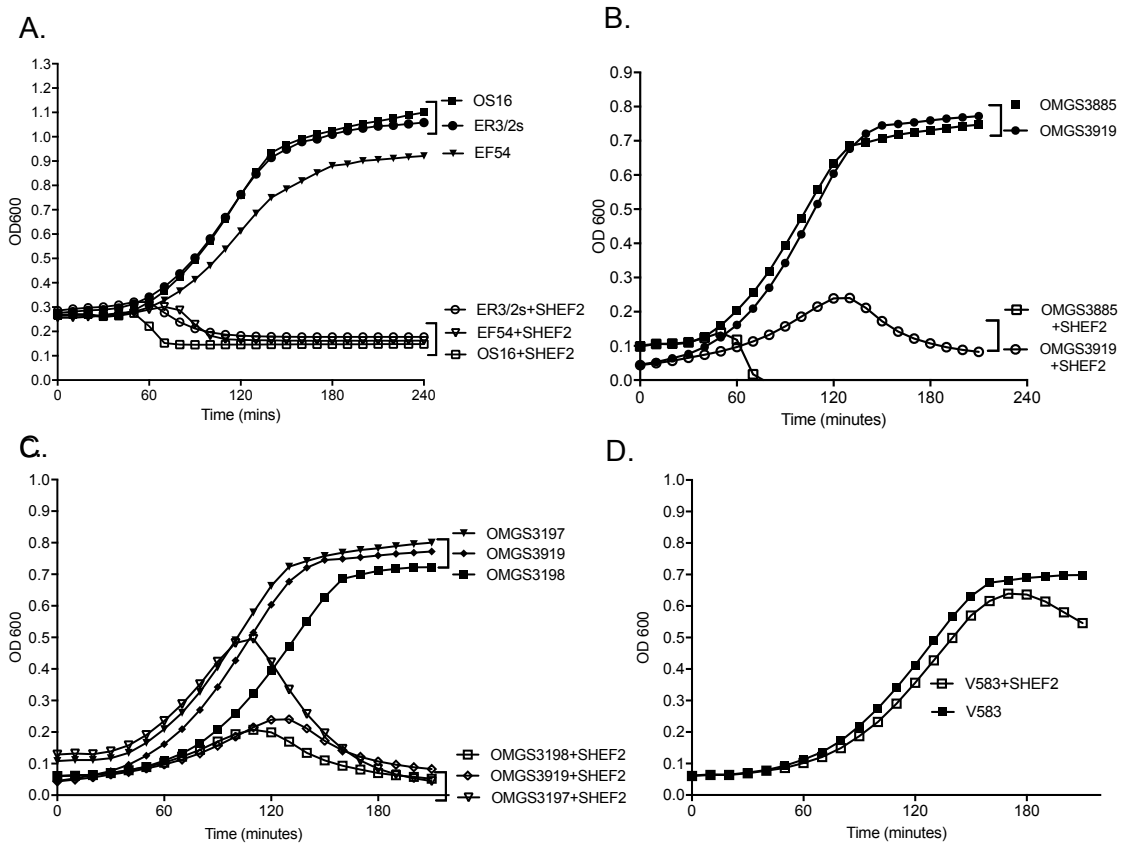

OG1RF
OPDV
OPDV_11720::Tn2.5
OPDV_11715::Tn2.13
OPDV_11714::Tn2.14
OPDV_11707::Tn2.8
SHEF2
-
Complementation
+
Complementation

Figure S5


A.
OD600
Time (mins)
OS16
ER3/2s
EF54
ER3/2s+SHEF2
EF54+SHEF2
OS16+SHEF2
B.
OD 600
Time (minutes)
OMGS3885
OMGS3919
OMGS3885 +SHEF2
OMGS3919 +SHEF2
C.
OD 600
Time (minutes)
OMGS3197
OMGS3919
OMGS3198
OMGS3198+SHEF2
OMGS3919+SHEF2
OMGS3197+SHEF2
D.
OD 600
Time (minutes)
V583+SHEF2
V583

**SUPPLEMENTARY FIGURE LEGENDS**

**Figure S1 Mauvealign image of the entire genome of SHEF 2,4,5.**

**Figure S2. Multiple sequence alignment of SHEF minor tail genes produced by Multalin**. A) SHEF2_16, 4_08 and 5_53; with conserved domains underlined in black and blue. B) SHEF2_17, 4_09 and 5_52; the phage anti-receptor (TIGR01665) and smaller domain of phage tail endopeptidase (pfam06605) are underlined

**Figure S3**. **Biofilm growth and affects of SHEF2 addition**
**A.** Biofilms were grown on Polystyrene surfaces for 6-days before addition of either live or heat-killed SHEF2. Bar charts (left) represent data from 6 wells per condition with A570 quantified after extraction of Crystal violet. Samples treated with live phage are labelled: +SHEF2; while those with heat-killed: +SHEF2 (HK); strain names are as elsewhere. Mean with SD and students t-test to compare conditions ($P<0.0001$). Images of wells are shown to illustrate these data at both 24 and 144h.
**B**. Mixed species biofilms were grown under identical conditions as S3A. Bar charts display A570 after Crystal Violet staining. Mean of 6-wells with SD is shown with used students t-test to compare conditions ($P<0.0001$). (right) an example image of microtitre plate is shown after CV staining.
**C.** Triplicate cultures of strain EF54 Were grown overnight and then diluted to the cell numbers shown and incubated with resazurin under identical conditions to the assay in Fig. 5. Emission at 590nm is shown with SD of mean readings.

**S4- Infection of OG1RF strains with SHEF2.** Double layer spot-plating assays of strains infected with SHEF2 ($1x10^7$ PFU) were performed and incubated o/n before imaging.

**S5. Sensitivity assays.** SHEF2 Phage ($1x10^7$ PFU) was added to 100ml of an overnight culture of strains indicated diluted to OD600 0.1 ($1x10^8$ cfu/ml) in fresh warmed BHI broth. 150μl was then placed in 96-well plates and measured with shaking over time with OD measured at the points indicated.