S2 Table. Water molecules at the subunit interface

|          | FtsZ_GDP + BeF<sup>3+</sup> + Mg<sup>2+</sup> | FtsZ_GDP + AlF<sup>3+</sup> + Mg<sup>2+</sup> | FtsZ_GDP |
|----------|---------------------------------------------|---------------------------------------------|----------|
|          | 7OHK                                        | 7OHN                                        | 6RVN     |
|          | NBD<sup>1</sup> | W<sup>2,3</sup> | GAD<sup>1</sup> | NBD<sup>1</sup> | W<sup>2,3</sup> | GAD<sup>1</sup> | NBD<sup>1</sup> | W<sup>2,3</sup> | GAD<sup>1</sup> |
| N25(OD1) | 602  | G205(O) | G206(O) | N25(OD1) | 563  | G205(O) | G206(O) | N25(OD1) | 506  | G205(O) | G206(O) |
| Mg<sup>2+</sup> | 630  | [M2] | D46(OD2) | N44(ND2) | Mg<sup>2+</sup> | 628  | [M2] | N44(ND2) | N208(O) | 578  | [M] | D210(OD1) | D213(OD1) | N208(O) | 566  | [M] | D210(OD1) | D213(OD1) |
| Mg<sup>2+</sup> | D46(OD2) | [BEF(F3)] | 582  | [M4] | N208(O) | 556  | [M4] | N208(O) | GDP(O2A1) | GDP(O2B1) | 604  | N208(O) |
| BEF(F3) | 545  | [B1] | D213(OD1) | ALF(F3) | 574  | [B1] | D213(OD1) | N208(O) | 507  | [B1] | D213(OD1) |
| BEF(F3) | 566  | [B2] | N208(O) | D213(OD2) | ALF(F1) | 585  | [B2] | N208(O) | D213(OD2) | N208(O) | 582  | [B2] | N208(O) | D213(OD2) |
| BEF(F3) | 617  | [*] | D210(OD1) | D213(OD1) | ALF(F1) | 578  | [*] | D210(OD1) | D213(OD1) | G72(N) | 594  | D210(OD1) | D213(OD1) |
| R29(NH1) | 610  | E206(O) | R29(NH1) | N25(ND2) | GDP(O6) | 566  | E206(O) | R29(NH1) | N25(ND2) | GDP(O6) | 544  | E206(O) |
| R29(NH1) | 537  | F294(N) | M292(O) | E139(NE) | 561  | F294(N) | M292(O) | E139(NE) | 562  | F294(N) | M292(O) |
| R143(NE) | 664  | N291(OD1) | R143(NH1) | 656  | N291(OD1) | R143(NH1) | 659  | N291(OD1) |
| R143(NH2) | 571  | F294(O) | R143(NH2) | 536  | F294(O) | R143(NH2) | 568  | F294(O) |
| R143(NH2) | 547  | V290(O) | R143(NH2) | 592  | V290(O) | R143(NH2) | 532  | V290(O) |
| D46(OD1) | 526  | D210(OD2) | D46(OD1) | 613  | D210(OD2) | D46(OD1) | 519  | D210(OD2) |
| G68(O) | 521  | H10(N) | G68(O) | 558  | H10(N) | G68(O) | 537  | H10(N) |

<sup>1</sup>Residue followed by atom, the latter in parenthesis.

<sup>2</sup>Labels used in Figures are in brackets.

<sup>3</sup>Additional waters in 7OHK are M3:619, K1:661, K2:604, B3:665; in 7OHN are M3:631, K1:658, K2:681, B3:685.