

|                           |   |   |
|---------------------------|---|---|
| dataset                   | Eco RNAP  | Eco RNAP-Sal  |
| beamline                  | CHESS-F1  | BNL-X25   |
| space group               | P2 <sub>1</sub> 2 <sub>1</sub> 2 <sub>1</sub>       | P2 <sub>1</sub> 2 <sub>1</sub> 2 <sub>1</sub>       |
| resolution range          | 50.00-3.90 Å (3.97-3.90 Å)                          | 50.00-3.90 Å (3.97-3.90 Å)                          |
| cell parameters<br>(Å, °) | a=186.4, b=207.2, c=308.3<br>α=90.0, β=90.0, γ=90.0 | a=185.8, b=208.2, c=308.2<br>α=90.0, β=90.0, γ=90.0 |
| completeness              | 0.997 (0.996)                                       | 0.998 (0.997)                                       |
| multiplicity              | 5.9 (4.8)   | 6.4 (4.9)   |
| mean I/σ                  | 13.2 (1.8)  | 15.5 (1.5)  |
| Rmerge                    | 0.115 (0.625)                                       | 0.118 (0.891)                                       |
| Rwork                     | 0.276   | 0.286   |
| Rfree                     | 0.325   | 0.325   |
| bond-length rmsd          | 0.004 Å   | 0.004 Å   |
| bond-angle rmsd           | 0.884°  | 1.009°  |
| PDB code                  | 4MEY  | 4MEX  |

**Supplementary file 2. Crystal structures of *E. coli* RNAP holoenzyme and *E. coli* RNAP holoenzyme in complex with Sal: crystallization and refinement statistics.**