Supplementary data

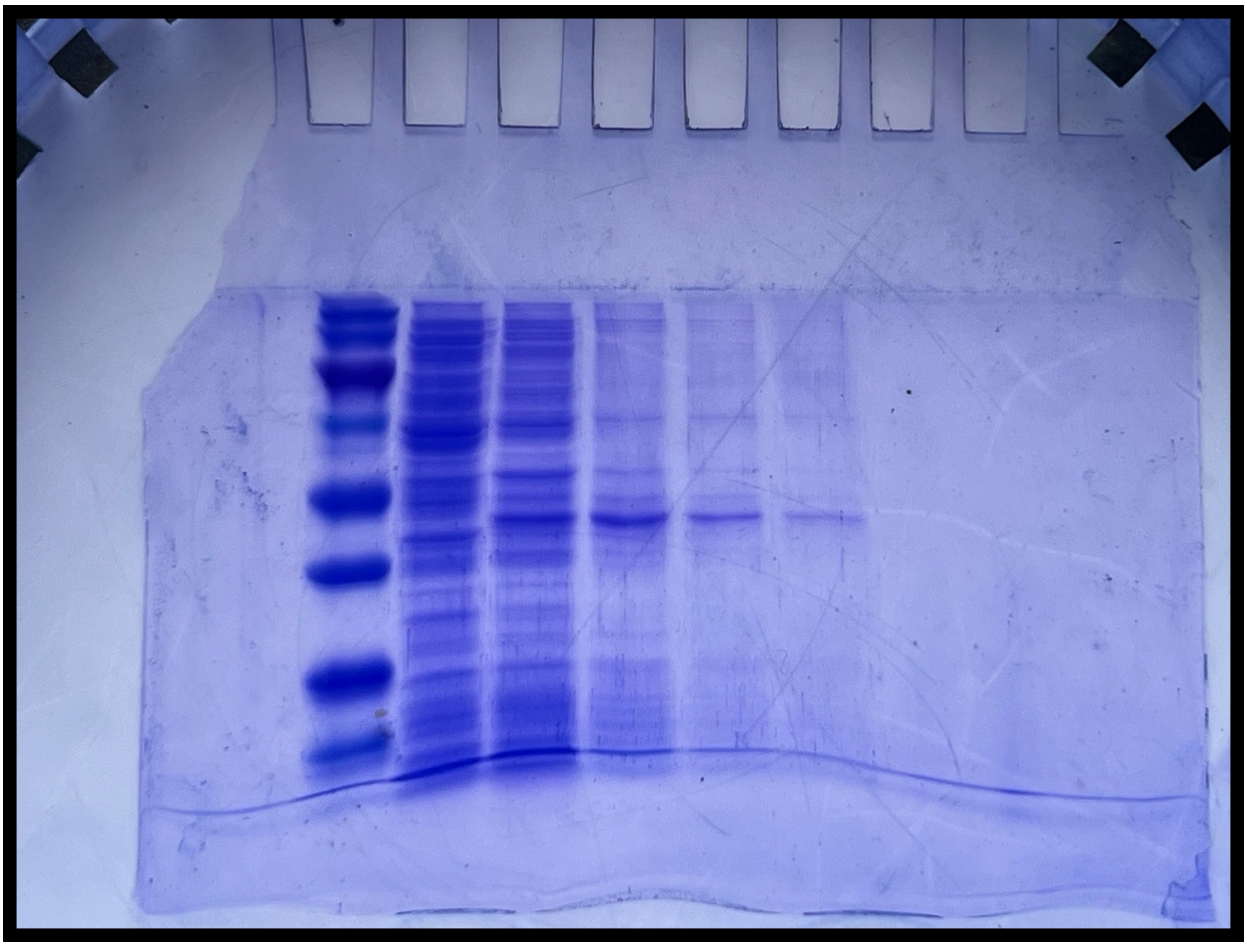
Full-length original unprocessed versions of the SDS-PAGE gel and Anti-His Western blot corresponding to Figure 4

These images are the full-length original unprocessed photographs of the gel and membrane used to generate Figure 4 of the manuscript, provided as a single supplementary file in accordance with BMC editorial policy on electrophoretic gels and blots (https://www.biomedcentral.com/getpublished/editorial-policies). A thick black outline marks the edges of each photograph. Membrane edges, including the irregular cut and notch, are visible. Ladder markings are visible. No brightness, contrast, or other digital adjustments were applied beyond conversion of the source files to JPEG for embedding.

Reference (main manuscript). *Figure 4. Expression and purification of recombinant ArtE2. (a) SDS-PAGE analysis of E. coli extract, ArtE2 extract, partially purified and purified fractions. The around 28 kDa band corresponding to ArtE2 is boxed. (b) Anti-His Western blot confirming the presence of the expected His-tagged protein.*

Figure 4a - Full-length original unprocessed SDS-PAGE gel

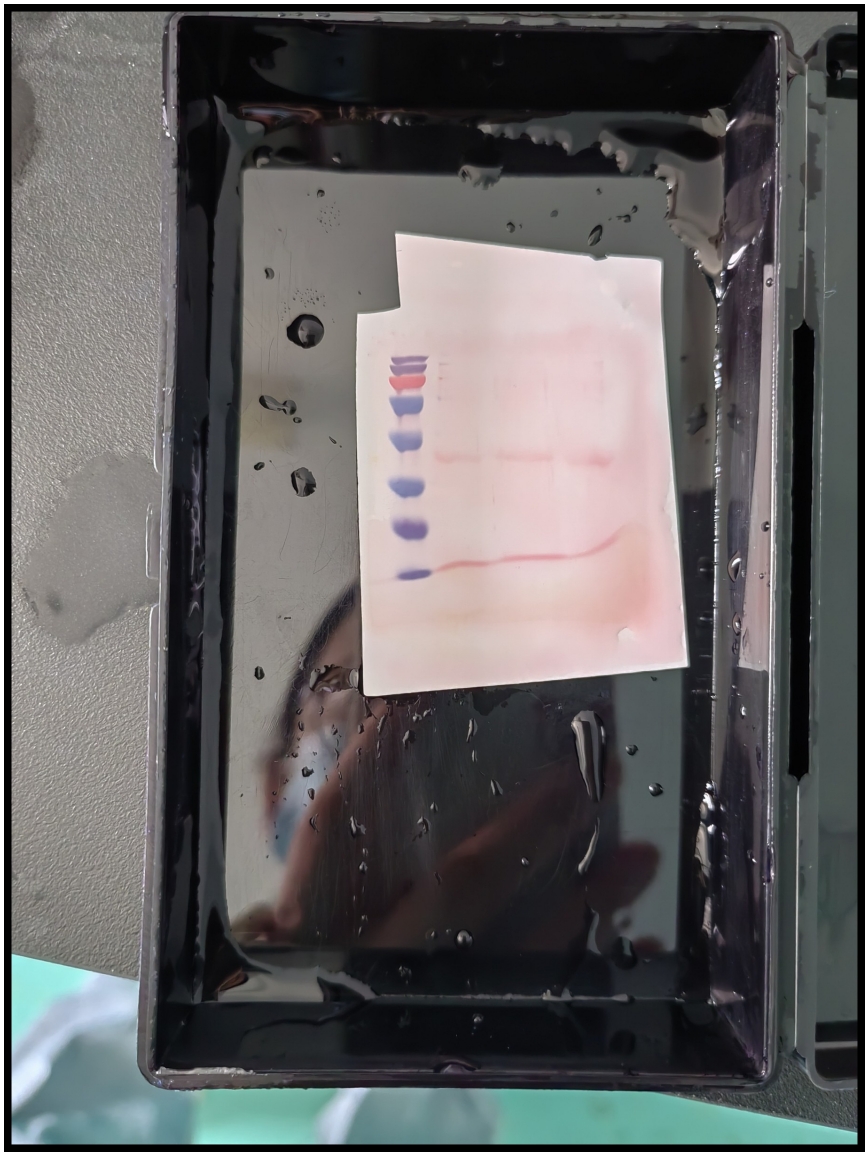
SDS-PAGE analysis of *E. coli* extract, ArtE2 extract, partially purified and purified fractions. The leftmost lane is the prestained molecular-weight marker (Sangon, Shanghai, China). Lanes (left to right after the marker): 1, control; 2, ArtE2 extract; 3, ArtE2 partial purification; 4 and 5, purified ArtE2. The around 28 kDa species boxed in main-text Figure 4a is the band used for the cropped panel. The physical edges of the gel (including wells at the top) are visible. The thick black outline marks the border of the original photograph.



Black outline = edges of the original unprocessed photograph. Full-length gel corresponding to Figure 4a.

Figure 4b - Full-length original unprocessed Anti-His Western blot membrane

Anti-His Western blot confirming the expected His-tagged protein (around 28 kDa). The complete membrane is shown in the development tray; its edges (including the characteristic irregular cut and notch at the upper left) are clearly visible. Prestained molecular-weight markers (Sangon, Shanghai, China) are on the left of the membrane. Lanes 1, 2 and 3: purified ArtE2 (three replications). The thick black outline marks the border of the original photograph. The cropped region used in main-text Figure 4b corresponds to the membrane area containing the marker and lanes 1–3.



Black outline = edges of the original unprocessed photograph. Full membrane corresponding to Figure 4b.

Compliance note. Both images are full-length original unprocessed versions, supplied in one document, labelled with the corresponding figure numbers used in the manuscript (Figure 4a and Figure 4b), with gel/membrane edges visible and relevant lane descriptors provided. The images shown are the experimental photographs underlying the published panels.