



Fig.1. EM images of the large cytoplasmic circadian clock complex purified from mouse liver. **Left**, negative stain EM. Scale bar, 200 nm. **Right**, representative cryo-EM screening image (from F20 microscope) showing what appear to be a few scattered, broken particles. Scale bar, 50 nm. No improvement in cryo-EM result was observed after multiple trials of varying the sample buffer, cross-linking conditions, blotting and vitrification parameters, and type of EM grid. This circadian clock complex is a ~1.1-MDa, ~25-nm assembly built from 7 different proteins¹ (PER1, PER2, PER3, CRY1, CRY2, Casein kinase-1 δ , and GAPVD1). The closely-related small cytoplasmic circadian clock complex (~0.9 MDa) presents virtually the same problem (not shown).

References

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