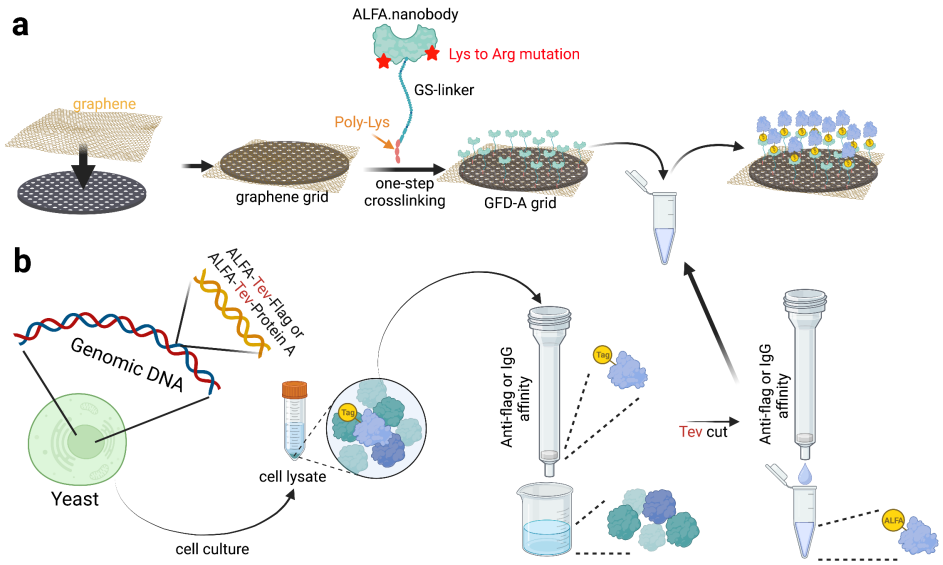

Figure 1. **a, b** Overall scheme of the GFD-A grid production (a) and isolating the first affinity eluate of endogenous proteins from yeast (b) for cryo-EM studies (created by BioRender.com).

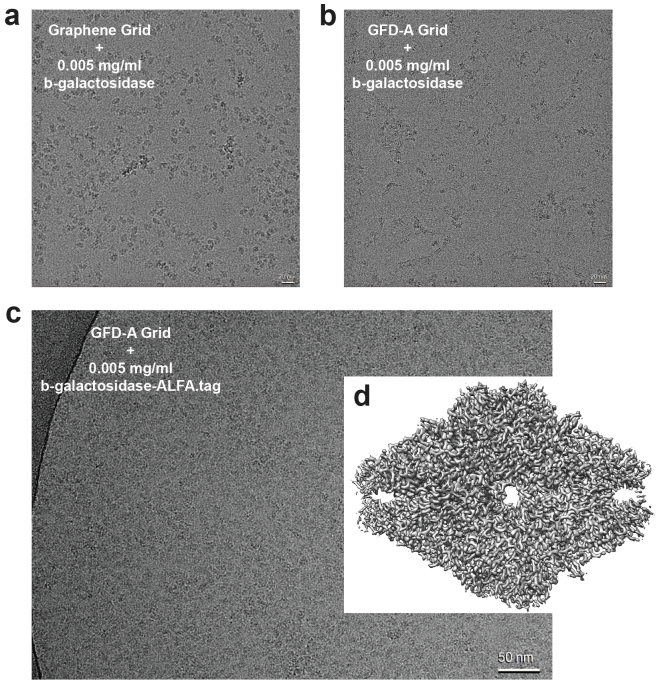

Figure 2. **a,** Micrographic image of the graphene grid with 0.005 mg/ml β-galactosidase (200 KeV Arctica, K2 detector). **b,** Micrographic image of the GFD-A grid with 0.005 mg/ml β-galactosidase (200 KeV Arctica, K2 detector). **c,** Micrographic image of the GFD-A grid with 0.005 mg/ml β-galactosidase-ALFA.tag (300 KeV Krios, K3 detector). **d,** Cryo-EM structure of β-galactosidase-ALFA.tag at 2.7 Å resolution (1,761 micrographs; 1.08 Å/px; 66 e^-/A^2/sec; final 336K particles).

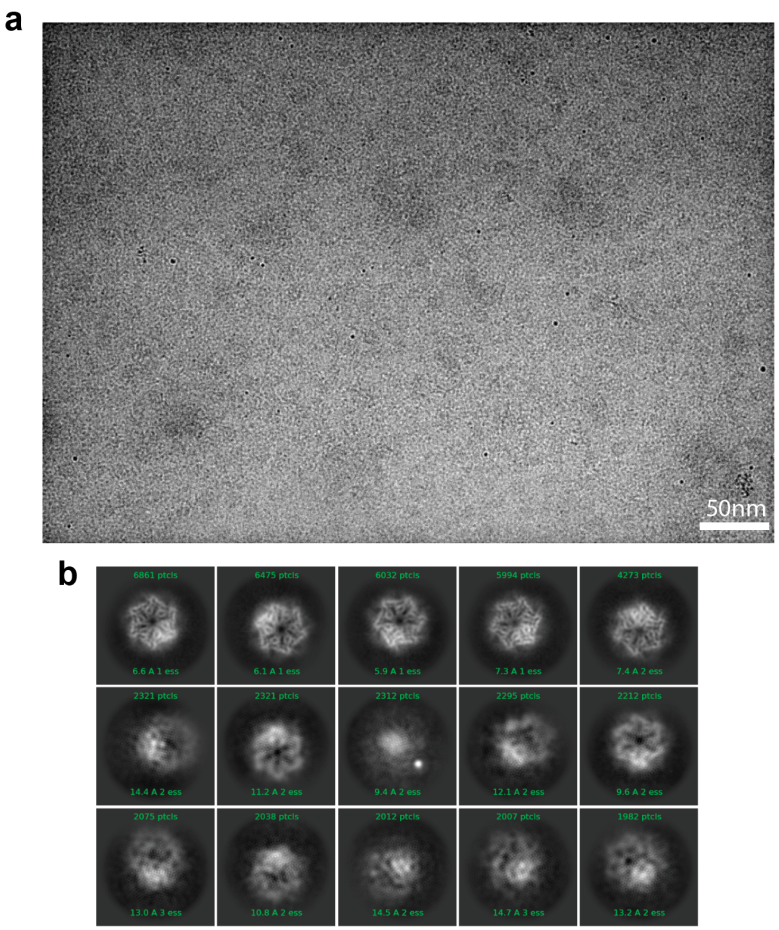

Figure 3. **a,** Micrographic image of the GFD grid incubated with Rik1-alfa.tagged CLRC complex (300 KeV Krios, K3 detector). **b,** 2D class averages of picked particles using cryosparc.