

Supplementary information, Figure S3

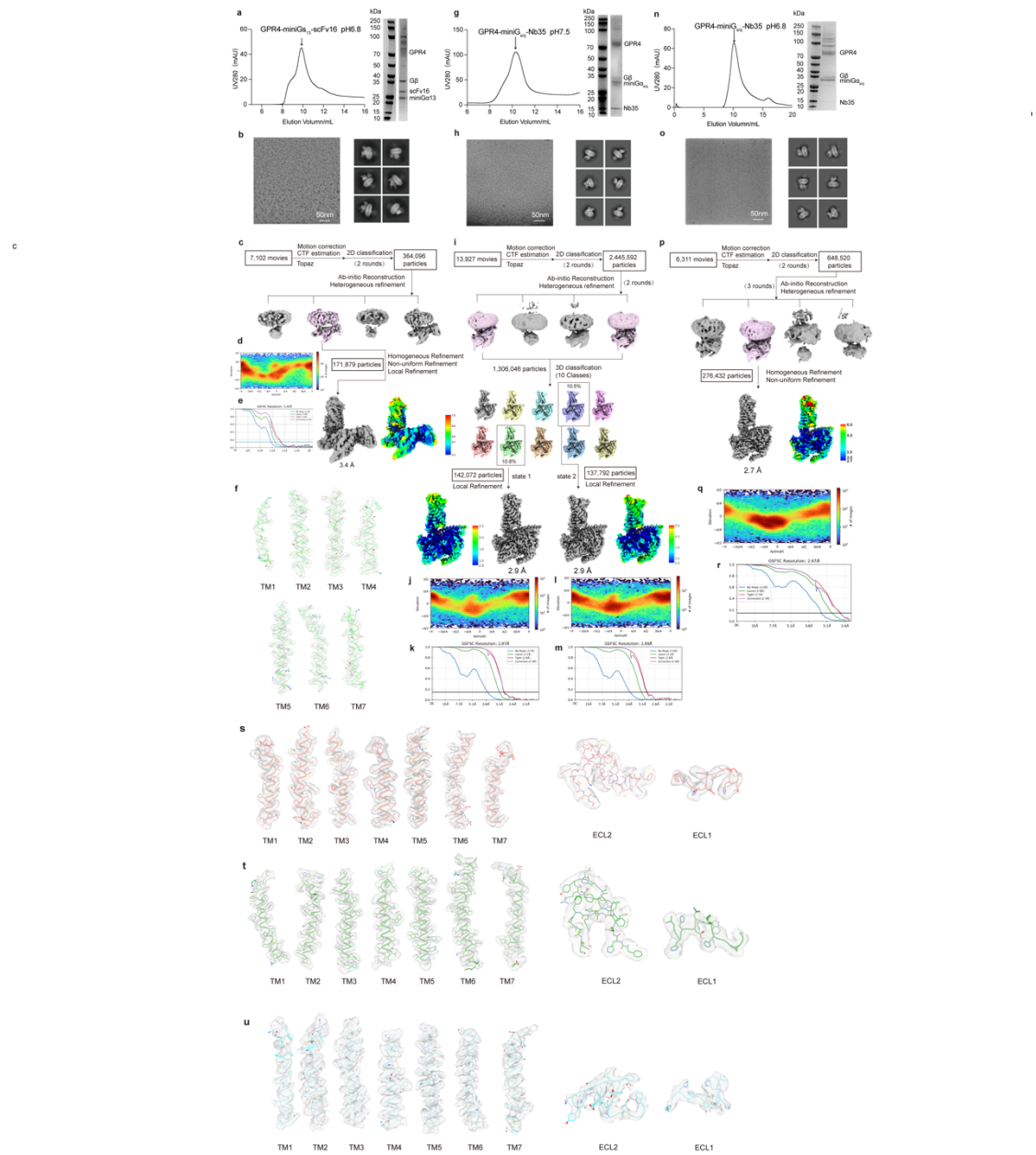


Fig. S3 Sample preparation and cryo-EM data processing of $\text{pH6.8GPR4-miniG13-scFv16}$, $\text{pH7.5GPR4-miniGs/q-Nb35}$ and $\text{pH6.8GPR4-miniGs/q-Nb35}$ complexes. a, g, n, Superdex200 size-exclusion chromatography elution profiles of the purified complex samples and SDS-PAGE analysis. b, h, o, Representative cryo-EM micrography and selected 2D classification. c, i, p, Schematic representation of cryo-EM data processing workflow. d-e, j-m, q-r, Angular distribution of the particles used for final reconstruction, cryo-EM maps are colored by local resolution (Å). The Fourier shell correlation (FSC) curves of pH6.8GPR4-G13 , pH7.5GPR4-Gq and pH6.8GPR4-Gq . The global resolution of the final processed density map estimated at the FSC = 0.143. f,

Cryo-EM maps and models of TMs for $\text{pH6.8GPR4-miniG}_{13}\text{-scFv16}$. **s-u**, Cryo-EM maps and models of TMs and ECLs for $\text{pH7.5GPR4-miniG}_{\text{s/q}}\text{-Nb35-state-1}$ (**s**), $\text{pH7.5GPR4-miniG}_{\text{s/q}}\text{-Nb35-state-1}$ (**t**) and $\text{pH6.8GPR4-miniG}_{\text{s/q}}\text{-Nb35}$ (**u**) complexes, respectively.