

Supplementary information, Figure S2

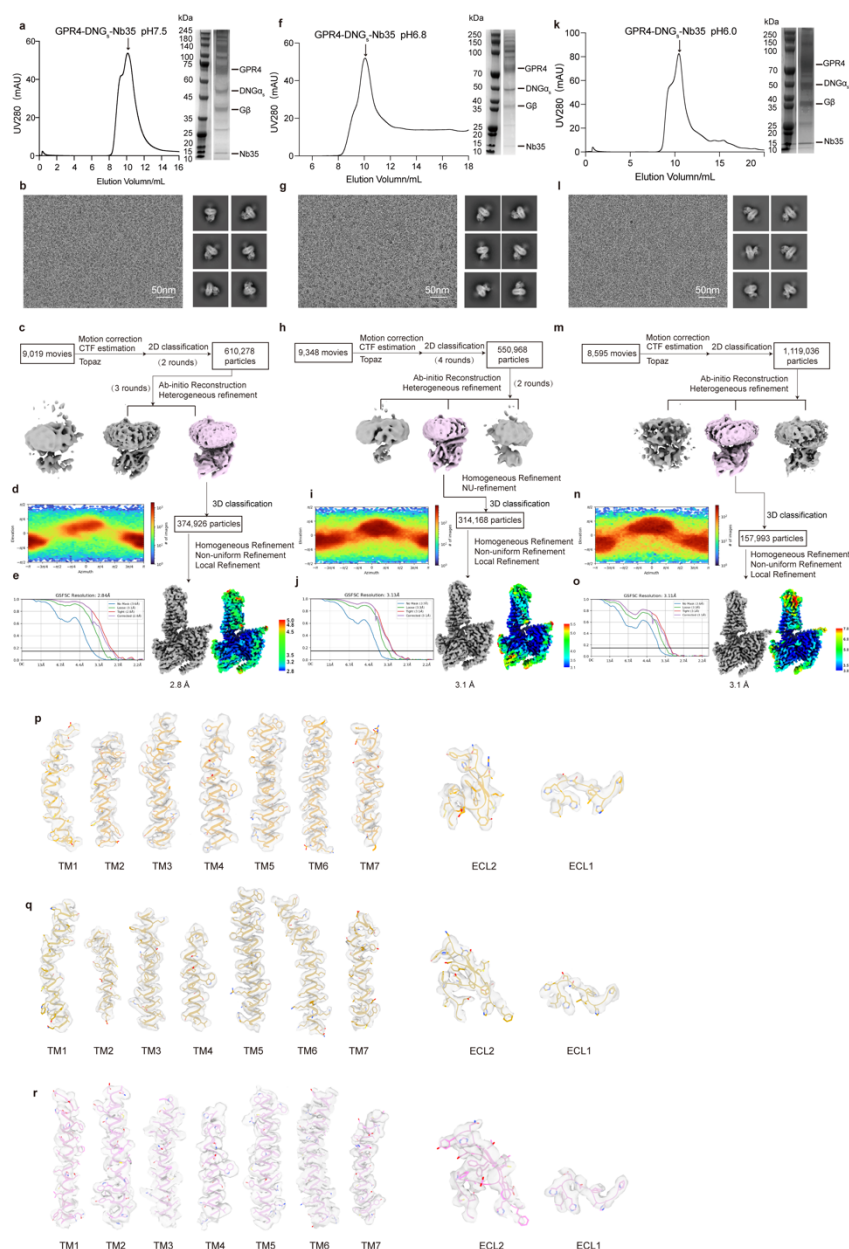


Fig. S2 Sample preparation and cryo-EM data processing of $pH_{7.5}$ GPR4-DNG_s-Nb35, $pH_{6.8}$ GPR4-DNG_s-Nb35 and $pH_{6.0}$ GPR4-DNG_s-Nb35 complexes. a, f, k, Superdex200 size-exclusion chromatography elution profiles of the purified complex samples and SDS-PAGE analysis. b, g, i, Representative cryo-EM micrography and selected 2D classification of GPR4-G_s complexes. c, h, m, Schematic representation of cryo-EM data processing workflow. d, i, n, Angular distribution of the particles used for final reconstruction. e, j, o, Cryo-EM maps are colored by local resolution (Å). The Fourier shell correlation (FSC) curves of GPR4-G_s. The global resolution of the final processed density map estimated at the FSC = 0.143. p, q, r, CryoEM maps and models

of TMs and ECLs for $\text{pH}_{7.5}\text{GPR4-DNG}_s\text{-Nb35}$ (**p**), $\text{pH}_{6.8}\text{GPR4-DNG}_s\text{-Nb35}$ (**q**) and $\text{pH}_{6.0}\text{GPR4-DNG}_s\text{-Nb35}$ (**r**) complexes, respectively.