



Figure S1: Capsid Model- Three different membrane deformation profiles under the influence of clathrin imposed curvature for $s_0=25, 50$ and 70 nm. For $s_0=70$ nm, membrane shape is reminiscent of a clathrin-coated vesicle. Inset (top): A schematic of the membrane profile explaining various symbols in the surface evolution methodology. The full membrane profile is obtained by rotating the curve by 2π about the z -axis. Inset (bottom) shows spontaneous curvature function experienced by the membrane due to the clathrin coat assembly in the capsid model.