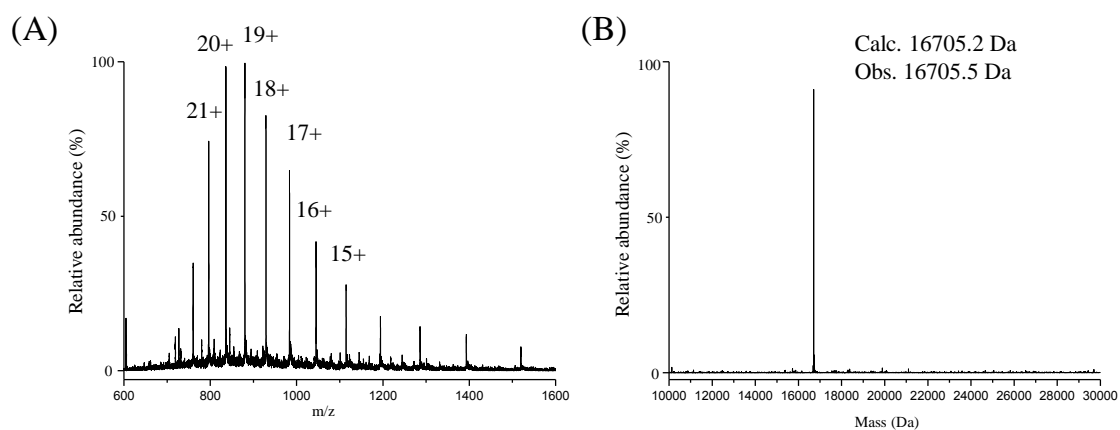Supporting information for

Fabrication of uniform layer-by-layer assemblies with complementary protein cage nanobuilding blocks via simple His-tag/metal recognition

Hyojin Moon, Woo Gyum Kim, Seongdong Lim, Young Ji Kang, Hyun-Hee Shin, Hyunhyub Ko, Sung You Hong, and Sebyung Kang*
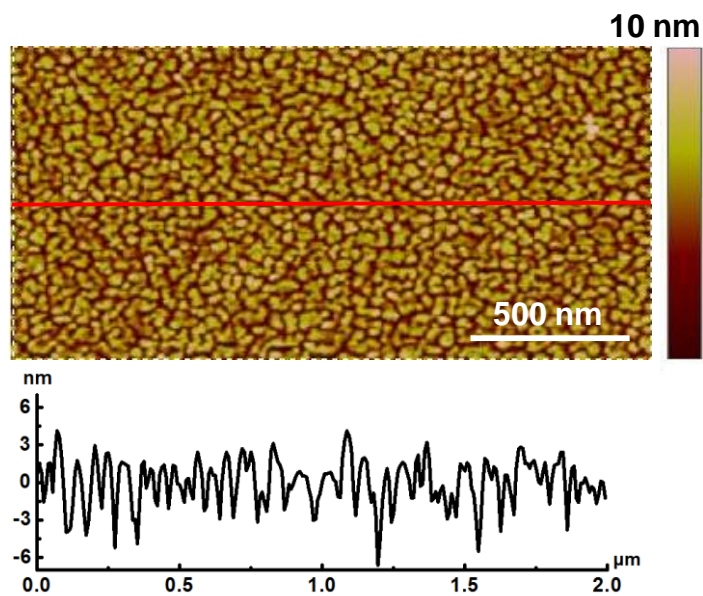
Supporting Figure 1

Supporting Figure 1. ESI-TOF mass spectrum of the dissociated subunits of wt AaLS PCN. (A) Gaussian charge state distribution is shown and a series of charged peaks is indicated (15+ to 21+). (B) Deconvoluted molecular mass of the dissociated subunits of wt AaLS PCN (calculated, 16705.2 Da; observed, 16705.5 Da).

Supporting Figure 2
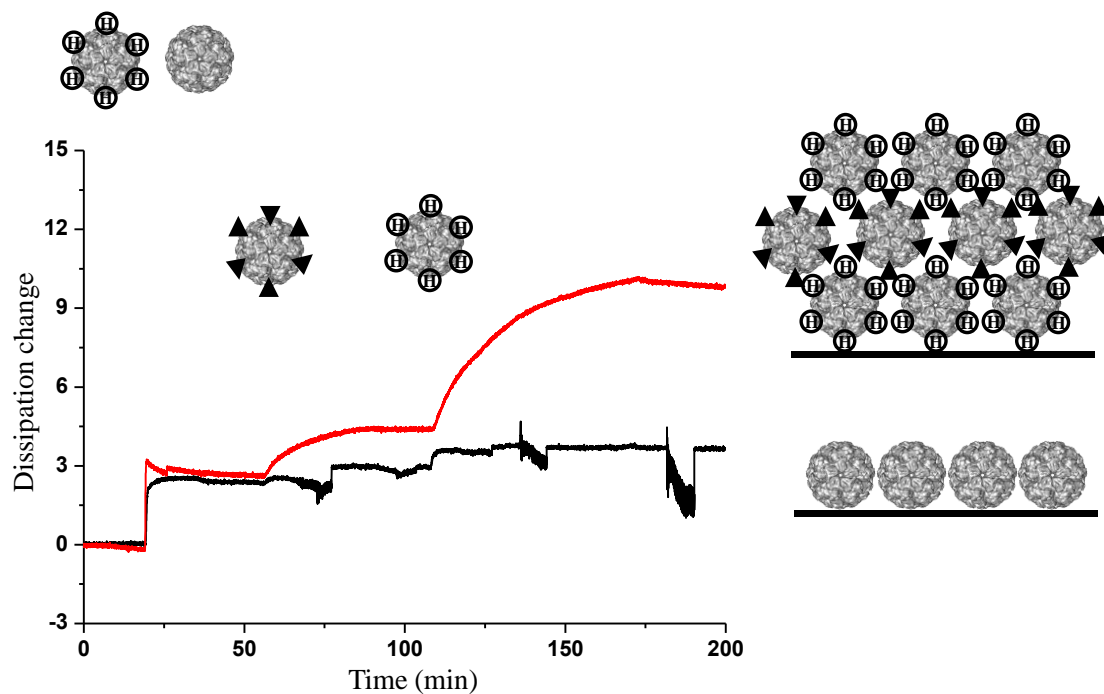
Supporting Figure 2. QCM dissipation change (ΔD) profiles of either wt AaLS (black line) or AaLS-His$_6$ (red line) PCNs on the QCM sensors and subsequent deposition of AaLS-NTA-Ni on the monolayer of AaLS-His$_6$. While the dissipation of AaLS-His$_6$ PCN monolayered QCM sensor increased dramatically upon introduction of AaLS-NTA-Ni PCNs (red line), the dissipation of wt AaLS PCN monolayered QCM sensor remained unchanged (black line).

Supporting Figure 3

Supporting Figure 3. Atomic force microscopic (AFM) image of basic gold film for the LbL assemblies. Surface roughness is 1.94 nm.