SUPPLEMENTAL MATERIAL

Supplementary Figure 1. Purification of SAP1-\alpha-EGFP nanoparticles. (A) Workflow for the purification of SAP1- α -EGFP nanoparticles. (B) Coomassie-stained SDS-PAGE gel showing EGFP (used as control) and purified SAP1- α -EGFP. (C) Western blot demonstrating immunodetection of EGFP and SAP1- α in SAP1- α -EGFP. EGFP was used as positive and negative controls, respectively.

Supplementary Figure 2. In-silico AlphaFold prediction of the molecular arrangements of the SAPs in the nanoparticles. (A) PH(81-110)-EGFP (B) SAP1-EGFP, (C) SAP1- α -EGFP, and (D) SAP1- β -EGFP. The α -helix depicted in purple and β -strand in yellow. EGFP is depicted in green as surface. Notice all 3 SAPs are located at the center (core) of the nanoparticle.

Supplementary figure 3. In-silico AlphaFold prediction showing the arrangement of SAP1- β -EGFP in the nanoparticles. (A) SAP1- β -EGFP nanoparticles composed of 18 protein subunits (scale shows 5 nm). EGFP shown in green and β -strand in yellow. (B) Arrangement of the β -strands present at the center of the core region of the nanoparticle. (C) Surface analysis depicting the hydrophobicity profile of the SAP1- β core. (D) Localization of a single β -strand in the SAP1- β core. (E) Spatial orientation of a single β -strand showing the distribution of its hydrophobic and hydrophilic amino acids.