Figure S1. Reference diagram of the competitive ELISA (one-step) procedure, using pentamers as an example. CRP, C-reactive protein; AP, alkaline phosphatase; VTB, verotoxin; KAN, kanamycin.

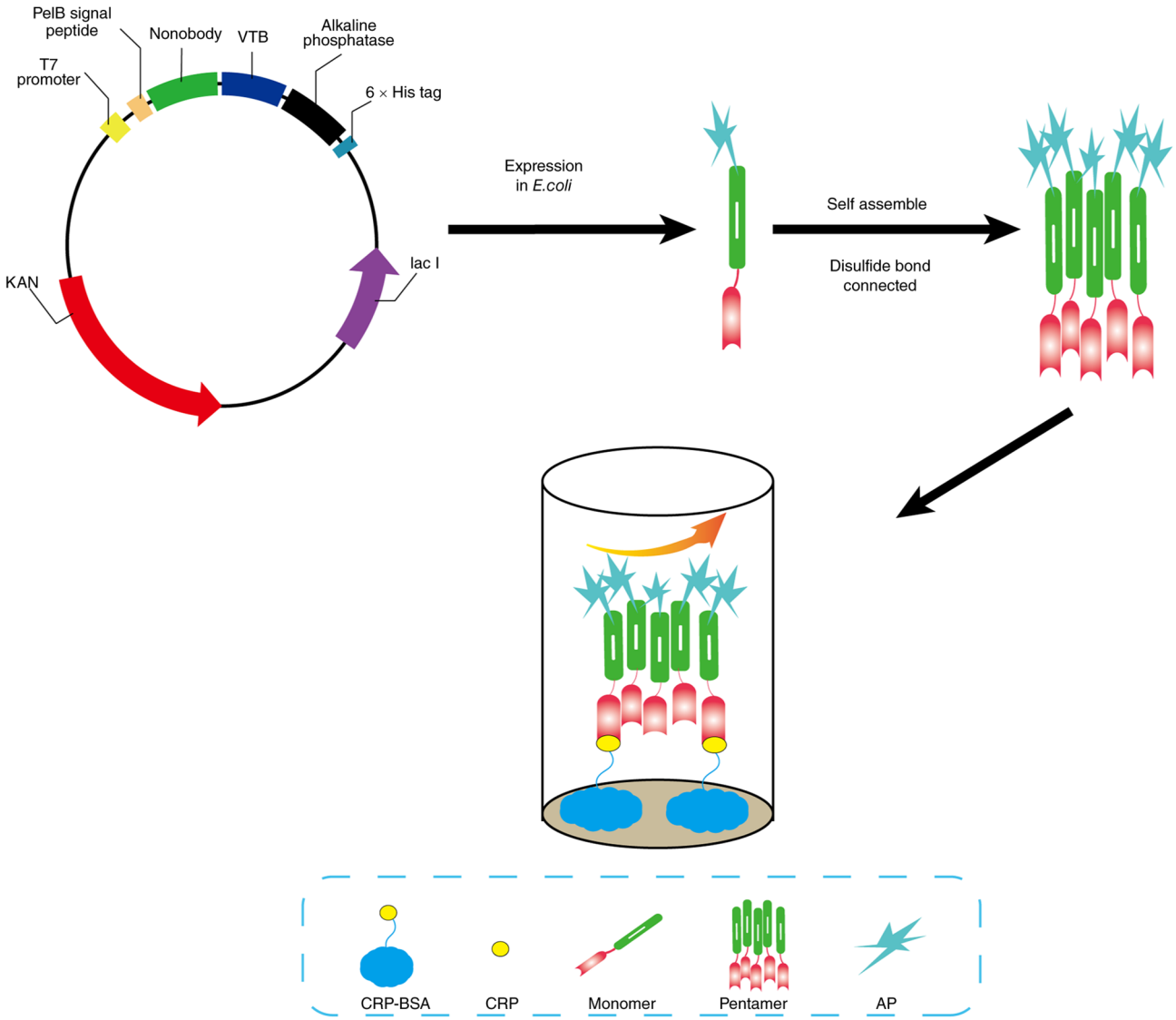

Figure S2. Checkerboard optimization of coating antigen and antibody concentration. Antibodies refers to C-reactive protein nanobody-verotoxin-alkaline phosphatase.

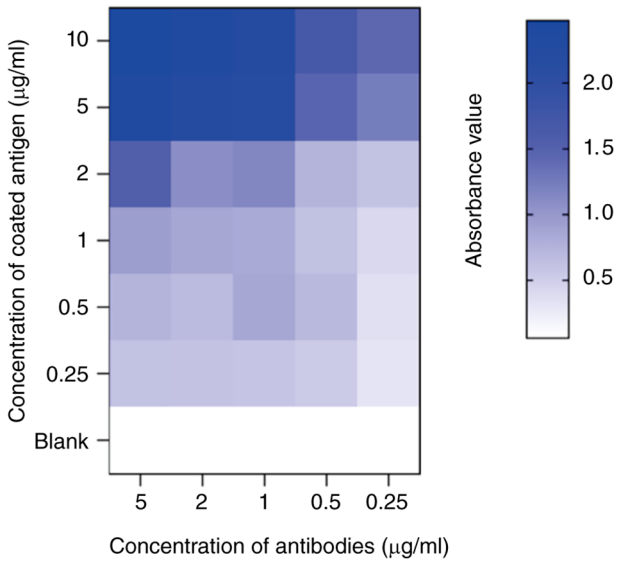

Figure S3. Optimization of competitive ELISA conditions, using pentamers as an example. (A) Coating antigen concentration. (B) Incubating antibody concentration. (C) Blocking solution. (D) Different competition times. (E) pH. (F) Ionic strength. The y-axis represents B/B_0, which is the ratio of the bound signal intensity at a given CRP concentration (B) to the maximum bound signal intensity in the absence of competing free CRP (B_0, normalized to 1.0). CRP, C-reactive protein.