Supporting information

Table S1. The oligonucleotide sequences used in this work.

Title	Sequences (5' to 3')
P1	Protein A antibody-TTT TTT TTT TTT GTG AGG TTC GTG
	TGA TG
P2	GCG TGT ATC CCA TGT GTC CCT CAC TGA GTT TTT TTT TT-
	PBP2a antibody
HP	CAT CAC ACG GAC ACA TGG GAT ACA CGC CCA TCG TGT
	ACG CGT GTA TCC CAT GTG TCA CTT TTA CTA TAC AA
PER probe	TTA GGGm CmCC GGT TTT CCGm GmGC CCT AAC CCT AAC
	C CC TCA GCA GTA ACT ATA CAA AAA GTA ATT GTA TAG
	TAA

Supplemented experimental details:

Assembly of the probes: Before the experiments, s1 sequence and s2 sequence were mixed in TE buffer, annealed for 5 min at 95 °C, and cooled down to 25 °C to form assembly probes for sensing.