Supplementary Information

A novel highly sensitive soy aptasensor for antigen β-conglycinin determination

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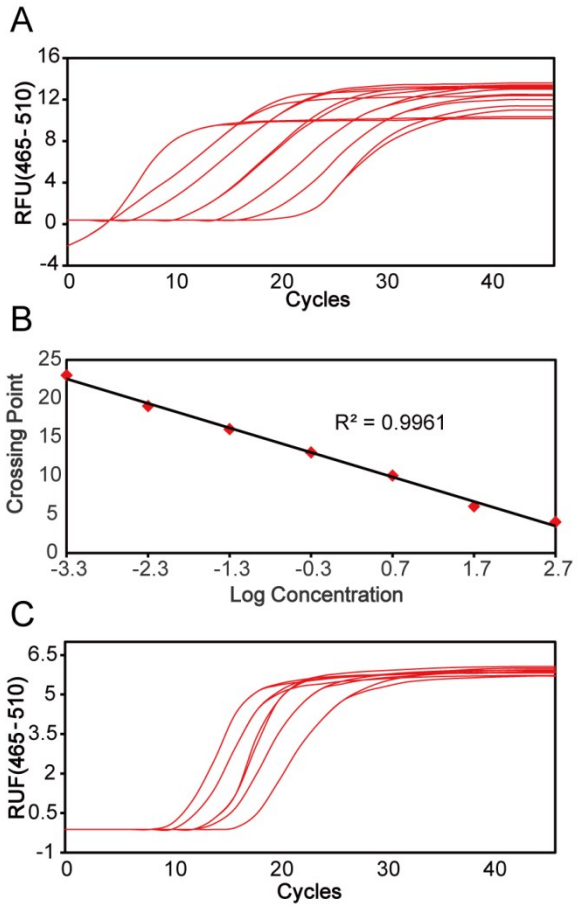

Figure S1. Determination of the dissociation constant of βA-1 by fluorescence quantitative PCR. (A) Standard amplification curve generated from a dilution series of βA-1. (B) Standard curve between log[βA-1] and CP value obtained from (A). (C) Amplification curves of samples with different concentrations of β subunits.

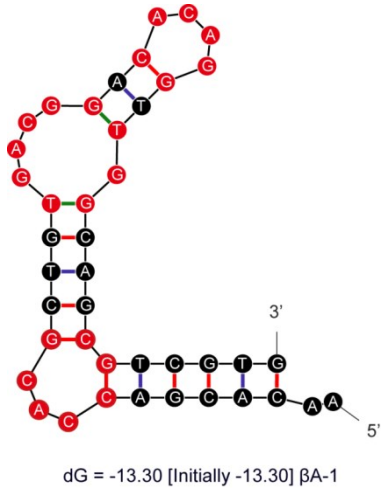

Figure S2. The secondary structure model of βA-1 aptamer predicted by the mfold program.

Table S1. Oligonucleotide fragments detected with high repeatability in β subunit samples

Number	Sequence	Repeat count	Proportion
1	AACACGACCACGCTGTGACGGACACAGGTTGGCAGCGTCGTG	109,586	7.01%
2	AACACGACGTAAGTTCGGCGGACGAACGATGCCAACGTGGGC	23,759	1.52%
3	AAGCCCACGTACCTGTGCCGGCCGAACACCGAGGCCGTCGTG	16,321	1.04%
4	AACACGACTTGACTGTGCTCATCACAGAATGTCACCGTGGGC	8258	0.53%
5	GAACACGACCACGCTGTGACGGACACAGGTTGGCAGCGTCGTG	6229	0.40%
6	AACACGAAGCCCGAGCGAGTGGGC	3810	0.24%
7	AACACGACATGCCTGTGATAGTCGAACCCCGTGGCTGTGGGC	3197	0.20%
8	AACACACAGATCTGTGCCAGACACAGCATGAGCCCGTGGGC	2801	0.18%
9	AACACGACTCCACTGTGCGTCGCGAACTCTGCCACGGTCGTG	2254	0.14%
10	GAACACGACGTAAGTTCGGCGGACGAACGATGCCAACGTGGGC	2238	0.14%