Table S4

Construction of pAcetone by SLIC.

4 fragments were designed to have 50 bp homologous ends. Repeated sequences (15 bp RBS+3 bp ATG) is highlighted in red. Vector backbone was amplified from pET28aΔlacI. Insert fragments *thl atoAD* and *adc* were generated by PCR. Then they were purified, treated with T4 DNA polymerase and assembled by SLIC with the help of recA.

fragments	templates	primers	
thl	*Clostridium acetobutylicum* genomic DNA	thl s	thl a
atoAD	*E. coli* K12 genomic DNA	atoAD s	atoAD a
adc	*Clostridium acetobutylicum* genomic DNA	adc s	adc a
vector	pET28aΔ*lacI*	B s	B a
Primer sequences			
thl s	TAACTTTAAGAAGGAGATATACCATGAAAGAAGTTGTAATAGCTAGTGC		
thl a	CAATTTTGTTTTCATATGTATATCTCCTTCCTAGCACTTTTCTAGCAATATTGC		
atoAD s	CTAGAAAAGTGCTAGGAAGGAGATATACATATGAAAACAAAATTGATGACATTAC		
atoAD a	TTCATCCTTTAACATATGTATATCTCCTTCTCATAAATCACCCCGTTGC		
adc s	CGGGGTGATTTATGAGAAGGAGATATACATATGTTAAAGGATGAAGTAATTAAAC		
adc a	TCGCCCACCGCCATTTCCGCGGTGATTACTTAAGATAATCATATATAACTTCAGC		
B s	AGTTATATATGATTATCTTAAGTAATCACCGCGGAAATGGCG		
B a	CTGCACTAGCTATTACAACTTCTTTCATGGTATATCTCCTTCTTAAAGTT		