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Supplementary Table S1. Primers used in this study

Primer name	Primer sequence
Primers for real-time PCR	
aroA-qpcr-LF	atggcaacagaactgcgtaa
aroA-qpcr-LR	catttgggatcaagaatcgtc
aroC-qpcr-LF	ctttggcgaagaagttgagatga
aroC-qpcr-LR	ccgttgccgtaacaggtgat
aroK-qpcr-LF	gagttgaccgagaaacaggg
aroK-qpcr-LR	ctcttcatacagcggattgc
pheA-qpcr-LF	catctggacgcccattacat
pheA-qpcr-LR	caatcggtacgacggcatag
tyrB-qpcr-LF	ggaatcaggcgtctgggtca
tyrB-qpcr-LR	gccgttagtcgcttcgtcata
Primers for genomic editing	
cas-aroK-N20-LF	atgatgatgatttatcattcgttttagagctagaaatag
cas-aroK-N20-LR	gaatgataaatcatcatcatgctaagatctgactccataa
cas-aroK-up-LF	ggtcgcatccggctgaaatta
cas-aroK-up-LR	ctttttttgaggagggacgttactcactggaaaccagtcg
cas-aroK-mid-LF	gactggtttccagtgagtaacgtccctcctcaaaaaaagc
cas-aroK-mid-P9-LR	tgatatctgctatgcagtatcaaggcataacggctgcttcgtcaaaccgacg ttacatacgatggtgtaaatataaa
cas-aroK-down-P9-LF	tgatactgcatagcagatatcactcataaagatcgtcaggacagaagaaag catggcagagaaacgcaat
cas-aroK-down-LR	gacaacgccacgagcggaaaga
cas-aroK-mid-P8-LR	gcggcgcaggttaaggcataacggctgcttcgtcaaaccgacgttacata cgatggtgtaaatataaatgtacaa
cas-aroK-down-P8-LF	tatgccttaacctgcgccgcagatatcactcataaagatcgtcaggacaga agaaagcatggcagagaaacgcaata
cas-aroK-mid-arti-LR	ctagcacaatacctaggactgagctagctgtcaattactcactggaaacca gtc
cas-aroK-down-arti-LF	agtcctaggtattgtgctagcaactttaagaaggagatatacatatggcaga gaaacgcaatat

Supplementary Table S2. Sequence of the dynamic promoters

Promoter name	Promoter sequence
P1	ACACCATATGTAACGTCGGTTAGACGAAGCAGCCGTTATGC CTTATCCTGCATAGCAGA
P2	ACACCATATGTAACGTCGGTATGACGAAGCAGCCGTTATGC CTTAACCTGCGCCGCAGA
P3	ACACCATATGTAACGTCGGTTTGACGAAGCAGCCGTTATGC CTGAACCTGCGCCGCAGA
P4	ACACCATATGTAACGTCGGTTAGACGAAGCAGCCGTTATGC CTTAACCTGCGCCGCAGA
P5	ACACCATATGTAACGTCGGTTAGACGAAGCAGCCGTTATGC CTTATCCTGCGCCGCAGA
P6	ACACCATATGTAACGTCGGTTTGACGAAGCAGCCGTTATGC CTGATCCTGCATAGCAGA
P7	ACACCATATGTAACGTCGGTTTGACGAAGCAGCCGTTATGC CTTAACCTGCGCCGCAGA
P8	ACACCATCGTATGTAACGTCGGTTTGACGAAGCAGCCGTTA TGCCTTAACCTGCGCCGCAGA
P9	ACACCATATGTAACGTCGGTTTGACGAAGCAGCCGTTATGC CTGATACTGCATAGCAGA
P10	ACACCATATGTAACGTCGGTTTGACGAAGCAGCCGTTATGC CTGATAATGCATAGCAGA
P11	ACACCATCGTATGTAACGTCGGTTTGACGAAGCAGCCGTTA TGCCTTATCCTGCGCCGCAGA
P12	ACACCATCGTATGTAACGTCGGTTTGACGAAGCAGCCGTTA TGCCTTATCCTGCATAGCAGA

Notes: Yellow highlights nucleotides represent the introduced site mutations in the promoter sequence of *tyrP*.