

Supplemental Figures

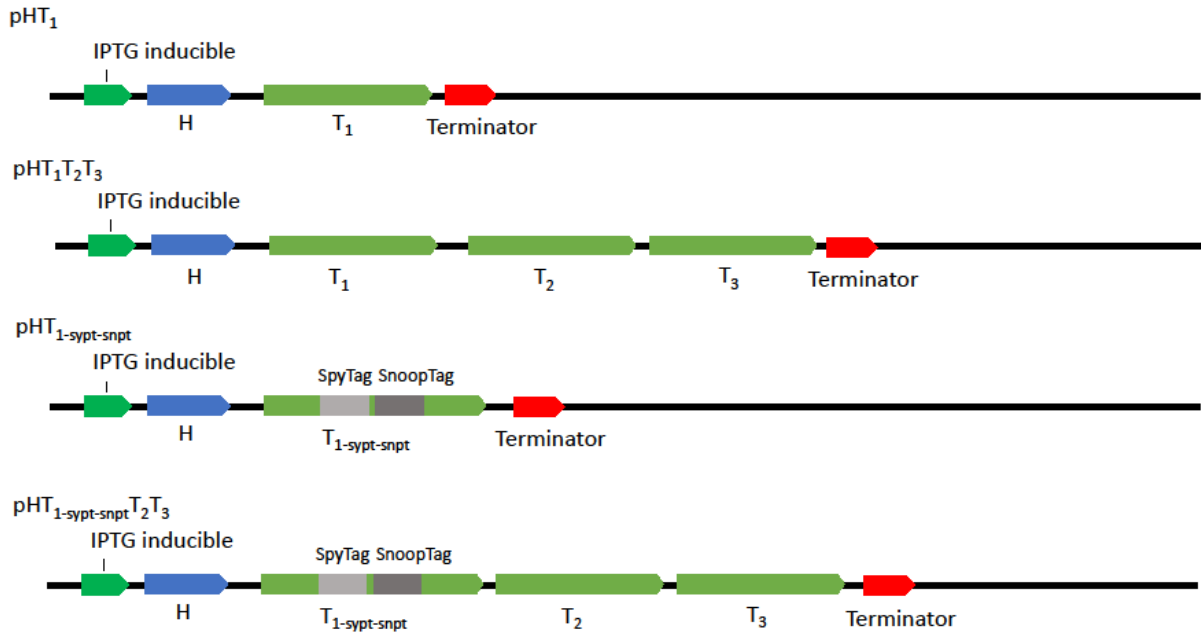


Figure S1: Schematics of synthetic operons for the expression of wiffleballs. No adapter domains minimal wiffleball: pHT₁; full wiffleball: pHT₁T₂T₃; and the SpyTag and SnoopTag adapter domain carrying variants: pHT_{1-sypt-snpt} and pHT_{1-sypt-snpt}T₂T₃. All plasmids carry the *colE1* origin of replication and an ampicillin resistance.

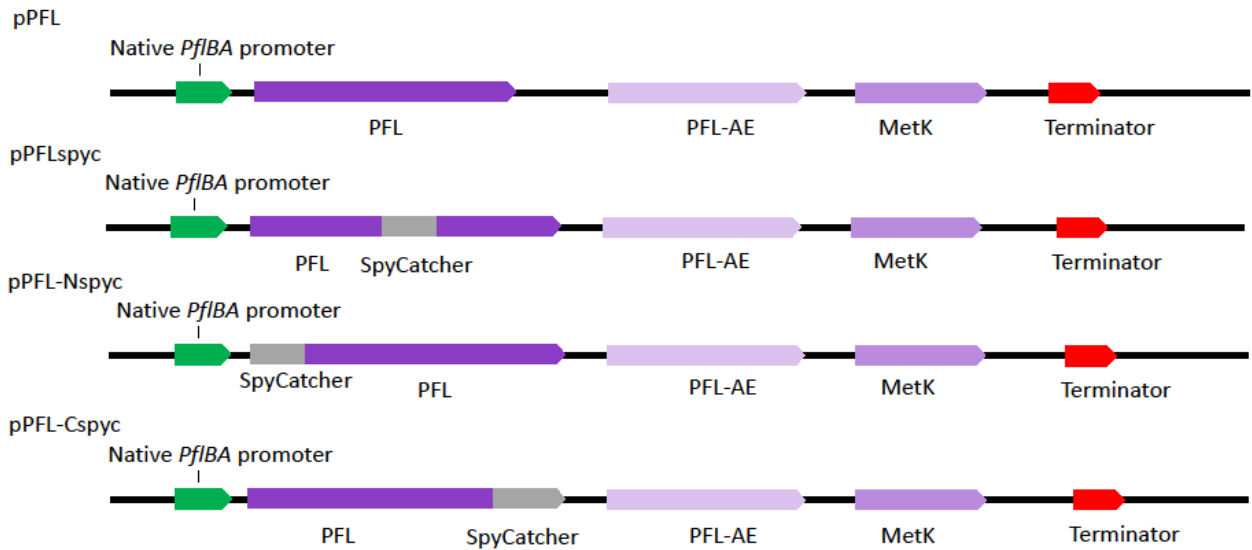


Figure S2: Schematics of synthetic operons for the expression of PFL and its variants carrying the adapter domain SpyCatcher, PFL-AE, and MetK. All constructs contain the *p15a* origin of replication and a chloramphenicol resistance.

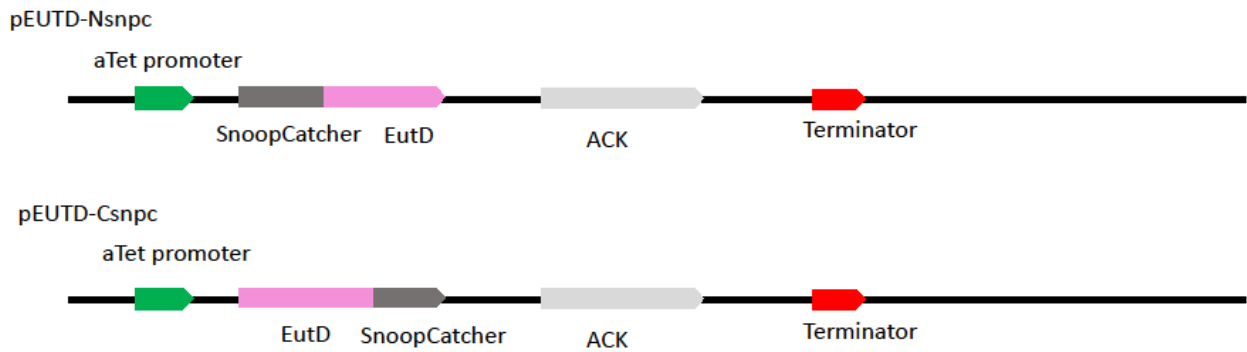
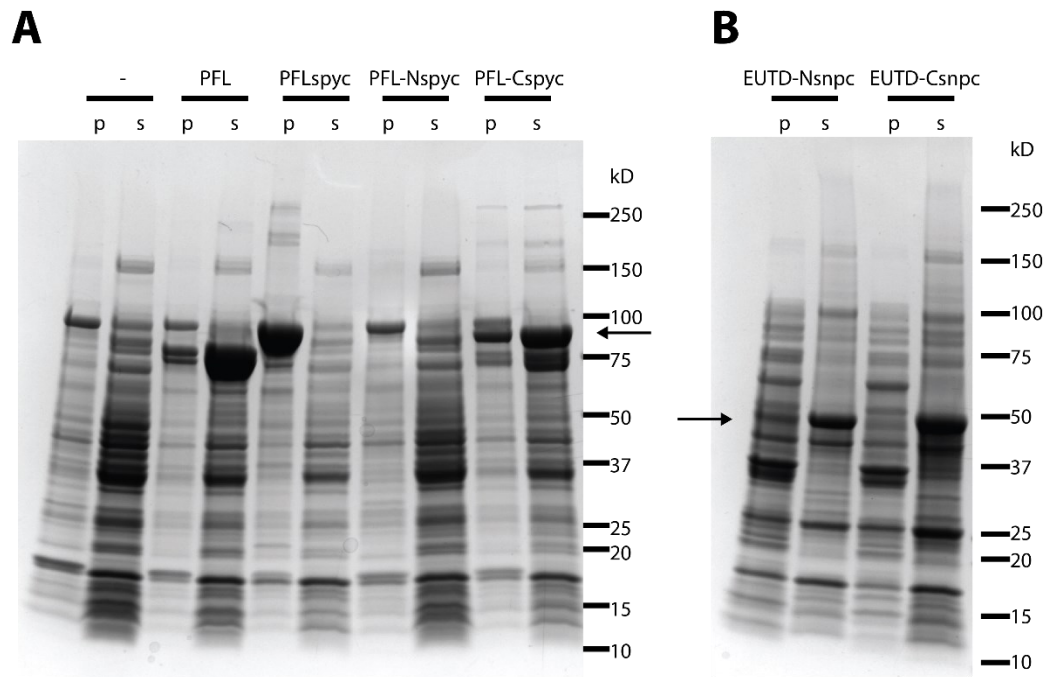


Figure S3: Schematics of synthetic operons for the expression of EUTD variants carrying the adapter domain SnoopCatcher and the acetate kinase (ACK). All constructs contain the p15a origin of replication and a kanamycin resistance.



Supp Figure S4: Coomassie stained SDS-PAGE gels of lysates from *E. coli* expressing the cargo plasmids. (A) Expression of PFL cargo plasmids in a PFL deletion strain ($\Delta aceA \Delta pflB$). -: PFL deletion; PFL: WT PFL (85 kD) expressed from a plasmid; PFLspyc: PFL with SpyCatcher insertion into a loop of the PFL (95 kD); PFL-Nspyc: N-terminal fusion of SpyCatcher (95 kD); PFL-Cspyc: C-terminal fusion of SpyCatcher (95 kD).

(B) Expression of EutD cargo plasmids. EutD-Nsnpc: N-terminal SnoopCatcher (49 kD); EutD-Csnpc: C-Terminal SnoopTag (49 kD).

Plasmid Sequences

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BMC-H highlighted in blue; BMC-T₁ highlighted in green.

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pHT_{1-spyt-snpt} T₂T₃

BMC-H highlighted in blue; BMC-T_{1-spyt-snpt} highlighted in green; BMC-T₂ highlighted in dark green; BMC-T₃ highlighted in brown.

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pPFL

PFL (*pflB*) highlighted in purple; PFL-AE (*pflA*) highlighted in magenta, MetK highlighted in red.

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pPFL-Nspyc

PFL-Nspyc highlighted in purple; PFL-AE (*pfIA*) highlighted in magenta, MetK highlighted in red.

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