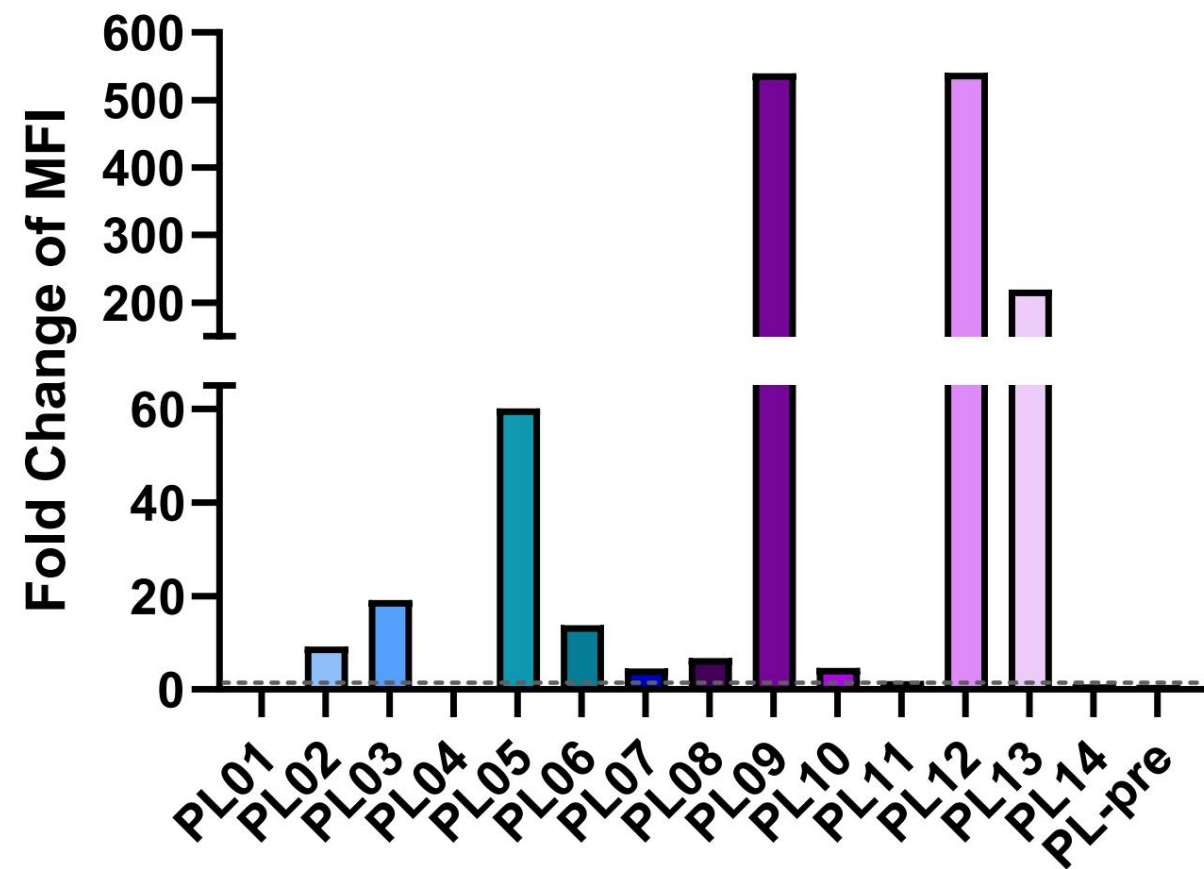
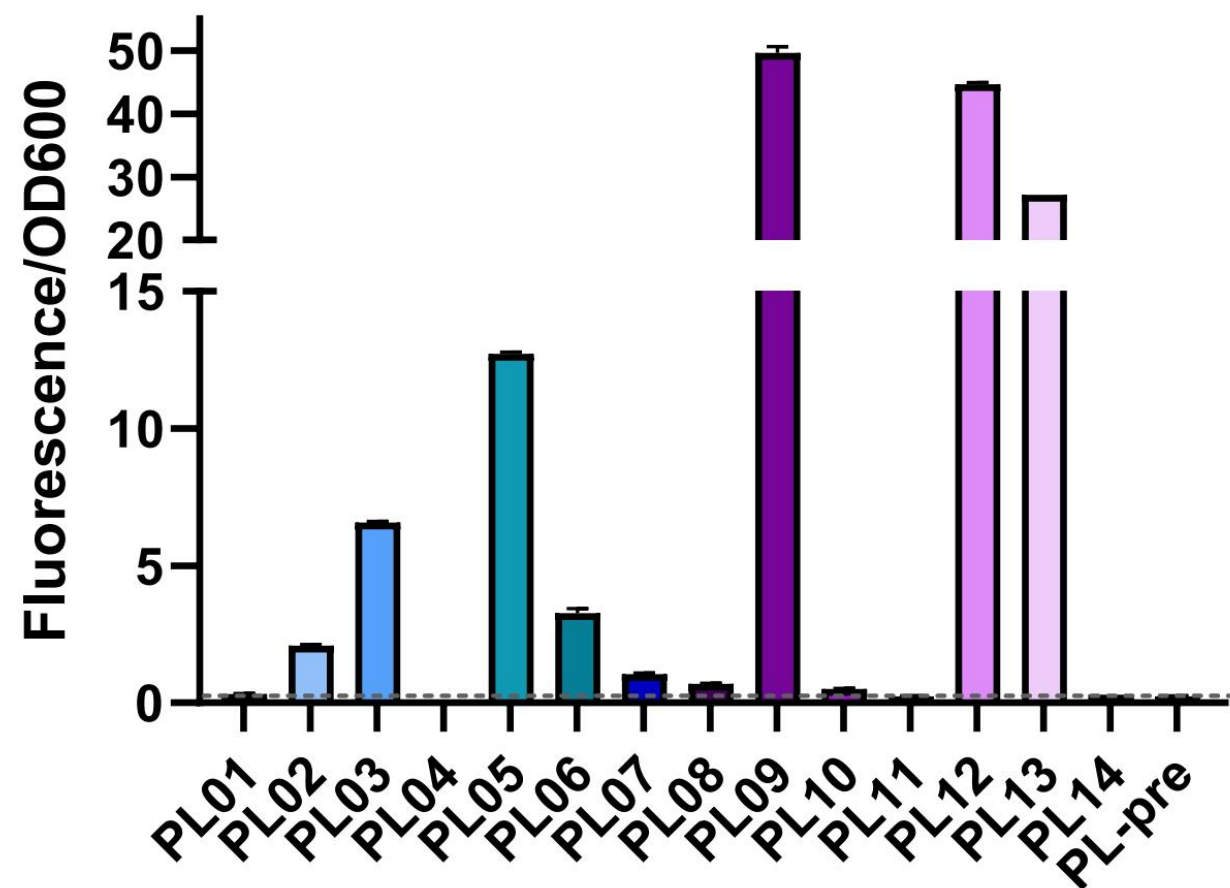


Supplementary Table1

Plasmid	Source
pBV220—mCherry	ZOMANBIO
pET28a—GST—mCherry	ZOMANBIO
Materials	Catalogue
Stbl3 Chemically Competent Cell	AlpalifeBio #KTSM110L
NEBuilder® HiFi DNA Assembly Master Mix	NEB #E2621L
Q5® High—Fidelity DNA Polymerase	NEB #M0491L
NucleoSpin Gel and PCR clean—up	MN #740609.25
DpnI	NEB #R0176S
Laboratory Apparatus	Manufacturer
Benchtop centrifuge	Eppendorf
PCR instrument	Eppendorf
Fortessa	BD
Microplate Reader	BIO—RAD 550

Supplementary Table2

Primer	
PnisA_F	tcgatcccgcgaaatctagtccttaactatactgacaatagaacattaacaaatc
PnisA_pre_R	aagttaacaaaaattatttctagaggataattttttgtagttccttcgaacgaaatcattgtatctaacaaact
PnisA01_R	aagttaacaaaaattatttctagaggataattttttgtagtccttctaactaaatcattgtatctaacaaact
PnisA02_R	aagttaacaaaaattatttctagaggataattttagtcgtagttccttcgctccgaaatcattgtatctaacaaact
PnisA03_R	aagttaacaaaaattatttctagaggataacttagttgtagttccttctaactaaattattgtatctaacaaact
PnisA04_R	aagttaacaaaaattatttctagaggaaaattttttagtagtccttctaactaaatcattgtatctaacaaact
PnisA07_R	aagttaacaaaaattatttctagaggataacatagttttagttccttctaacaaatcattgtatctaacaaact
PnisA10_R	aagttaacaaaaattatttctagaggatagttcattttgtagttcattctaacgaaatcattgtatctaacaaact
PnisA13_R	aagttaacaaaaattatttctagaggatagtttagttttagttccttctaactaaatcattgtatctaacaaact
PnisA14_R	aagttaacaaaaattatttctagaggataatctatctttagtagtccttctaacaaaatcattgtatctaacaaact
PL01_F	cataaataccactggcggtcatacagagaaacataagcagg
PL01_R	gttctctgtatgaccgccagtggtatttatgttaacccgc
PL02_F	cataaatactactggcggtcatactgagaacaacagcagg
PL02_R	gttctcagtatgaccgccagtagtatttatgtcagcaccgc
PL03_F	cataactaccactggcggttatactgagtacatcagcagg
PL03_R	gtactcagtataaccgccagtggtagtatgtaaacaccgc
PL04_F	cataactaccactggcggtgatactaactacatcagcagg
PL04_R	gtagttagtatcaccgccagtggtagtattggaacaccgc
PL05_F	cataaatactactggcggtgatactgagtacatcatcagg
PL05_R	gtactcagtatcaccgccagtagtatttatgtcaacatcgc
PL06_F	catcaataccactggcggtgagactgagtacatcatcaggacgcac
PL06_R	gtactcagtcctaccgccagtggtatttagtgcaactgccagag
PL07_F	cataaataccactggcggttatactgagtacatcatcagg
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PL08_F	cataaatactactagcggtaatactgagtacatcagcagg
PL08_R	gtactcagtattaccgctagtagtatttatgtaaacaccgc
PL09_F	cataaatactactggcggtgatactaagcacggtagcaggacg
PL09_R	gtgcttagtatcaccgccagtagtatttatgtcaacatcgc
PL10_F	cataaataccactggcggttatacagaggacataagcagaaacgcac
PL10_R	gtcctctgtataaccgccagtggtatttatgtcaacaccgc
PL11_F	cataaataccactggcggtcctactgaacacataagcagg
PL11_R	gtgttcagtaggaccgccagtggtatttatgtccacaccgc
PL12_F	cataaataccactggcggttatactaagcacataaacaggacgcactg
PL12_R	gtgcttagtataaccgccagtggtatttatgtcaacatcgc
PL13_F	cgtaactaccactggcggttacactgagtacatcagcagg
PL13_R	gtactcagtgaaccgccagtggtagtacgtcaacaccgc
PL14_F	catacatacaactggcggtgatacagagaacatcagcagg
PL14_R	gttctctgtatcaccgccagttgtatgtatgttaacaccgc
Promoter Mutant Sequence	
PnisA	Predicted strength (log)
agtttgttagatacaatgattttgtagaatgaactacaaaaatgaattgt	8.632201195
agttagttagatacaatgatgtcgttcgaaggaaactacagactaaatgat	8.632535934
tgttgttagatacaatgatttcgttagaagggaactactaaaaaatat	8.633365631
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agtttgttagatacaatgattttgttagaagggaactacaagatagattat	8.842524529
previous	
agtttgttagatacaatgatttcgttcgaaggaaactacaaaataaattat	7.886957169
PL	Predicted strength (log)
gcgggtgttgacataaataccactggcggctatactaaccacataagcagg	7.681978703
gcgggtgttgacataaataaccactagcggttatactgagtacatcaggagg	7.683638096
gcgggtgttgacataaataccactggcgggtctattgagtacatcagcagg	7.68473959
gcgggtgttgacataaatactactggcgggtcatactaagcgcataagcagg	7.68588829
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gcgggtgttgacgtaactaccactggcggttacactgagtacatcagcagg	7.767437458
gcgggtttaacatacatacaactggcggtgatacagagaacatcagcagg	7.775942802
previous	
gcgggtgttgacataaataccactggcgggtgatactgagcacatcagcagg	6.598791599



Results of PL Before Inducing