

Supplemental Material for:
Rheostats and toggle switches for modulating protein function
File 1: Supplementary Tables

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Table S1: Primers used in the construction of LGhP

Name	Sequence
LhG-NL	GCGGCGATGGCGGAGCTCAGTTACCATCCCAAC
rev LhG-NL	GTTGGGATGGTAACTGAGCTCCGCCATCGCCGC
LhG-Hhalf	CCCAACCCCGAGGCACGAGAACTGGCG
rev LhG-Hhalf	CGCCAGTTCTCGTGCCTCGGGGTTGGG
LhG-Hfull	CCCAACGCCAACGCACGAGCACTGGCG
rev LhG-Hfull	CGCCAGTGCTCGTGCCTGGCGTTGGG
LGhPChalffor	CAACTGGCGCGCCAAAAGACGAAATCTATCGG
LGhPChalfrev	CCGATAGATTTTCGTCTTTTGGCGCGCCAGTTG
GhPCLFor	CAACTGGCGCAACAAACCACGAAATCTATCGG
GhPCLRev	CCGATAGATTTTCGTGGTTTGTGGCGCCAGTTG
Gh-Fix1	GAACGCCAACGCCCGTGCCTGGCGC
rev Gh-Fix1	GCGCCAGCGCACGGCGTTGGCGTTC
GhP-Fix2	CTGGCGCAGCAGACCACTAAATCTATCG
rev GhP-Fix2	CGATAGATTTAGTGGTCTGCTGCGCCAG

Table S2: Amino acid frequency (%) in the linker positions of the LacI subfamily.

	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
A								1	100				88			9	13	
C																		
D																		1
E																		
F																		
G								3						95				
H		17					1									12		
I								1			1						6	
K				55							1							
L	100							12			9	100					1	53
M																		9
N		70				100												
P																	1	16
Q										100	90					61		1
R		12					99							5	5	5		5
S		1						10								5	69	1
T				6												8	8	12
V				38				73					12				1	
W																		
Y																		
GAP			100	1														1