

Figure 1

Relative Position	N-terminus																		Linker	18																					
	f	g	a	b	c	d	e	f	g	a	b	c	d	e	f																										
	X1	X2	Hy	Var1	X3	Hy	Var1	Var2	X4	Hy	Var1	X5	Hy	Var1	Var3																										
	D	E	L	Var1	Q	L	Var1	Var2	E	L	Var1	K	L	Var1	Var3																										
Amino Acid Residue																																									
																					Q																				
																										G															
																															V										
																															D										
																																				S					
Amino Acid Residue	C-terminus																		Linker	19																					
	Var3	Var1	L	M	Var1	L	K	Var2	Var1	L	A	Var1	L	E	D																										
	Var3	Var1	Hy	X5	Var1	Hy	X4	Var2	Var1	Hy	X3	Var1	Hy	X2	X1																										
	f	e	d	c	b	a	g	f	e	d	c	b	a	g	f																										
Relative Position	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19																								

Figure 2

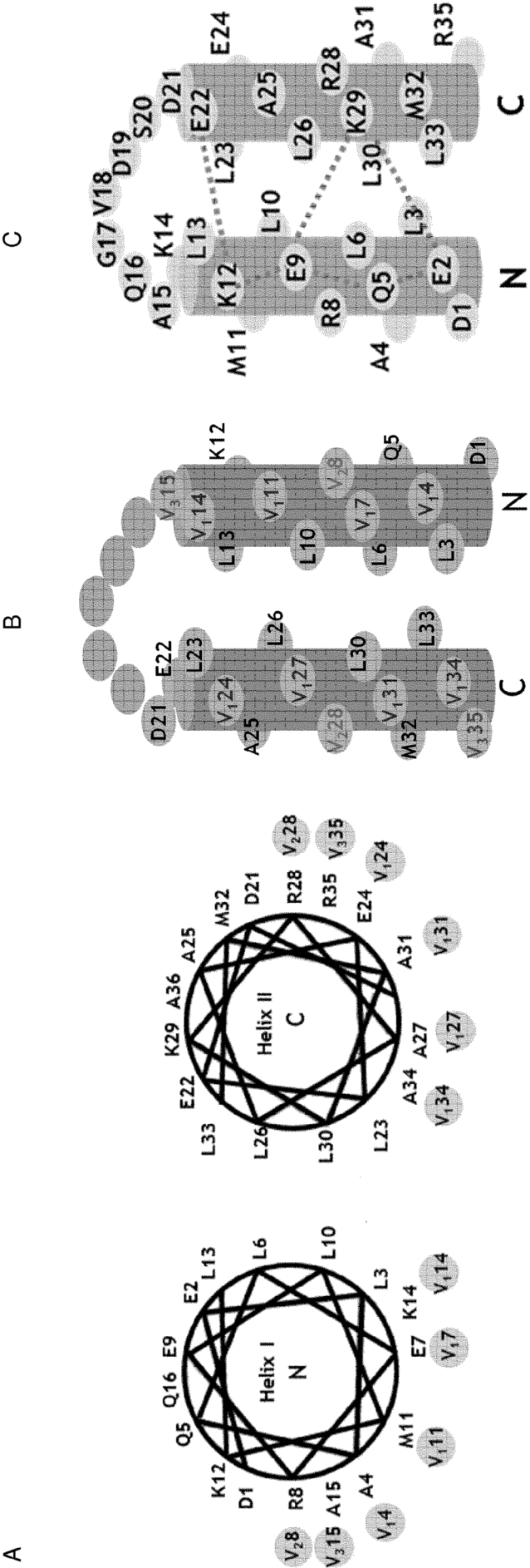


Figure 4A

[illegible]

Figure 4B

HTH-lib1 Library	Helix-1										Helix-2								
	4	7	8	11	14	15					24	27	28	31	34	35			
	Var 1 ADEFHIK LMNORS TVWY	Var 1 ADEFHIK LMNORS TVWY	Var 2 EOR	Var 1 ADEFHIK LMNORS TVWY	Var 1 ADEFHIK LMNORS TVWY	Var 3 HOR	Var 1 ADEFHIK LMNORS TVWY	Var 2 EOR	Var 1 ADEFHIK LMNORS TVWY	Var 1 ADEFHIK LMNORS TVWY	Var 1 ADEFHIK LMNORS TVWY	Var 2 EOR	Var 1 ADEFHIK LMNORS TVWY	Var 1 ADEFHIK LMNORS TVWY	Var 1 ADEFHIK LMNORS TVWY	Var 3 HOR			
A	6%	6%		2%	2%	8%	6%	6%				6%	5%	6%	3%				
C															6%	6%			
D	10%	4%		9%	7%		6%	6%		6%	5%		5%		5%				
E	7%	5%	56%	5%	5%	6%	6%	6%		6%	5%	37%	6%	6%	3%				
F	2%	5%	33%	4%	11%		6%	6%		5%	3%	33%	4%	6%	6%				
G																			
H	6%	6%	6%	6%	5%	42%	6%	6%	33%	1%	6%		10%	6%	8%	34%			
I	8%	7%		5%	4%		6%	6%		6%	12%		6%	6%	4%	33%			
K	5%	6%		10%	6%		6%	6%		7%	4%		5%	6%	4%				
L	2%	7%		6%	6%		6%	6%		6%	5%		3%	6%	4%				
M	14%	9%		2%	6%		6%	6%		11%	9%		7%	6%	8%				
N	3%	5%		5%	4%		6%	6%		6%	4%		5%	6%	5%				
P							6%	6%			6%			6%	6%				
Q	3%	6%	30%	7%	7%	26%	6%	6%		3%	5%								
R	5%	3%	14%	12%	4%	32%	6%	6%	33%	10%	4%		6%	6%	7%	31%			
S	4%	6%	33%	5%	5%		6%	6%	33%	7%	7%		6%	6%	3%	33%			
T	10%	6%		9%	6%		6%	6%		5%	7%		6%	6%	9%				
V	4%	7%		3%	3%		6%	6%		4%	3%		6%	6%	5%				
W	7%	8%		5%	7%		6%	6%		4%	6%		6%	6%	10%				
Y	4%	4%		6%	10%		6%	6%		4%	6%		6%	6%	6%				
*							6%	6%			6%			6%	6%				
Ins																			
Del					1%														

Distribution:
Design:

Figure 6

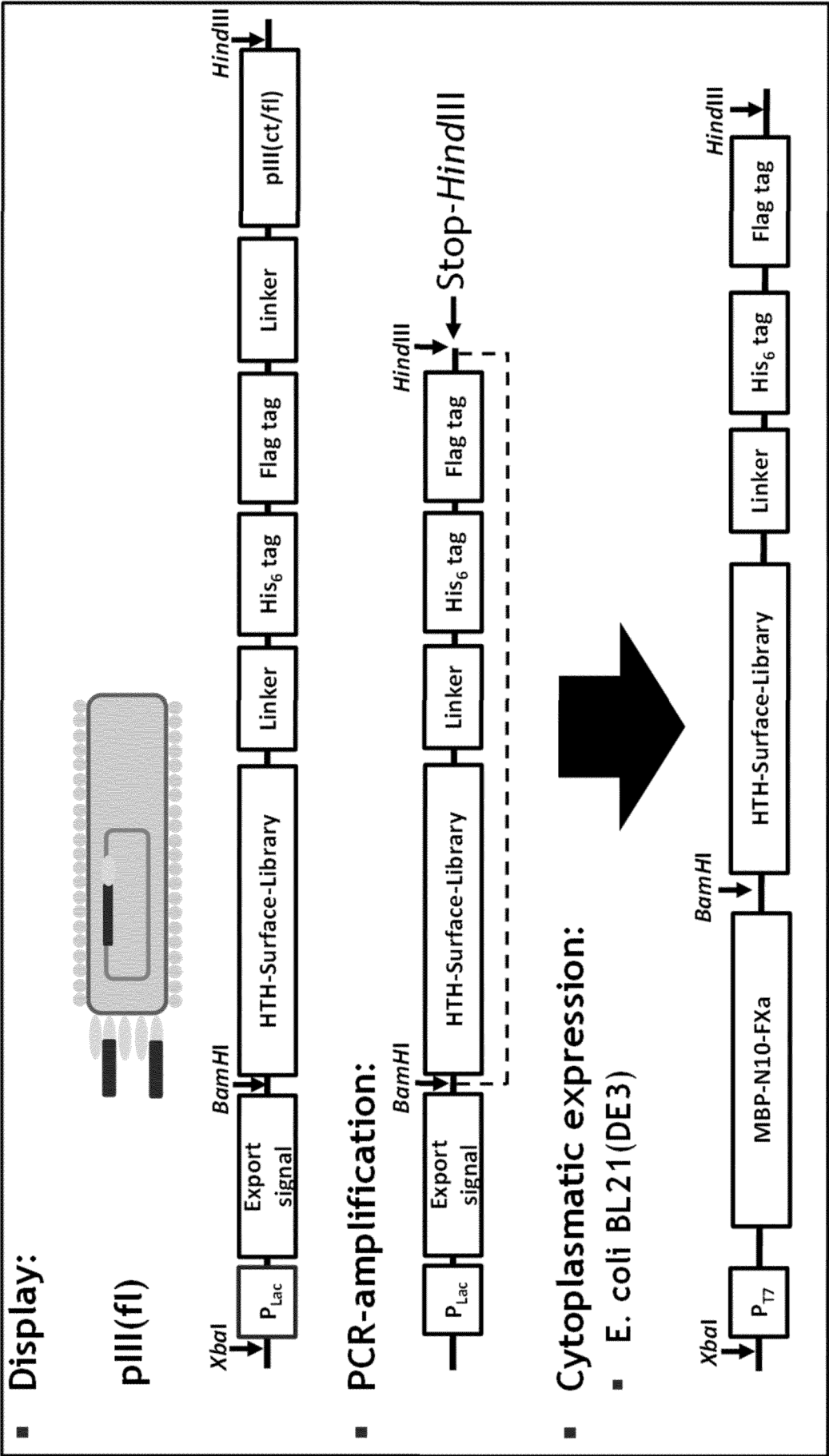


Figure 7

Peptide Sequence	Helix 1	Turn	Helix 2	x-fold enrichment	x-fold BG
DELMQMEELVKLNQGVDSDEIWAHQKLLMLSH	M		H	6	123
DELSQMEELVKLNQGVDSDEIWAHQKLLMLTH	S		T	6	108
DELSQMQELTKLNQGVDSDEIYALHQKLLMLTH	S		T	6	135
DELHQLAEEELVKLNQGVDSDEIWAHQKLLMLTH	H		T	5	100
DELAQLAEEELVKLNQGVDSDEIWAHQKLLMLSH	A		S	4	109
DELFQLAEEELKKLNQGVDSDELAALHQKLLMLTH	F		T	3	138
DELLQLAEEELKLNQGVDSDELFALHQKLLMLTH	L		T	3	98
DELTQLAEEELVKLNQGVDSDELFALHQKLLMLTH	T		T	3	145
DELYQLIEEELKLNQGVDSDELAALHQKLLMLTH	Y		T	3	87
DELDQLIEEELTKLNQGVDSDELFALHQKLLMLSH	D		S	2	150
DELLQLSEELVKLNQGVDSDEIWAHQKLLMLSH	L		S	2	39
DELNQLMEELVKLNQGVDSDEIWAHQKLLMLSH	N		S	2	124
DELRQLMEELKKLNQGVDSDEIQAALHQKLLMLTH	R		T	2	110
DELAQLAEEELKLNQGVDSDEIYALHQKLLMLSH	A		S	1	127
DELAQLIEEELVKLEQQGVDSDEIDALHQKLLMLYR	A		Y	1	118
DELDQLEEEELVKLNQGVDSDEIWAHQKLLMLTH	D		T	1	134
DELLQLSEELVKLNQGVDSDEIYALHQKLLMLTH	L		T	1	83
DELMQLFEEELTKLNQGVDSDEIYALHQKLLMLTH	M		T	1	121
DELMQMEELVKLNQGVDSDELFALHQKLLMLTH	M		T	1	147
DELQQKLEELTKLNQGVDSDEIYALHQKLLMLYH	Q		Y	1	82
DELSQLMEELKLNQGVDSDELAALHQKLLMLTH	S		T	1	71
DELSQLMEELKLNQGVDSDELFALHQKLLMLSH	S		S	1	114
DELTQLAEEELKKLNQGVDSDELAALHQKLLMLSH	T		S	1	90
DELVQLRQELAKLIHQGVDSDEIYALYRKLMMLEQ	V		E	1	111
DELYQLIEEELKLNQGVDSDELAALHQKLLMLSH	Y		S	1	57

Figure 8

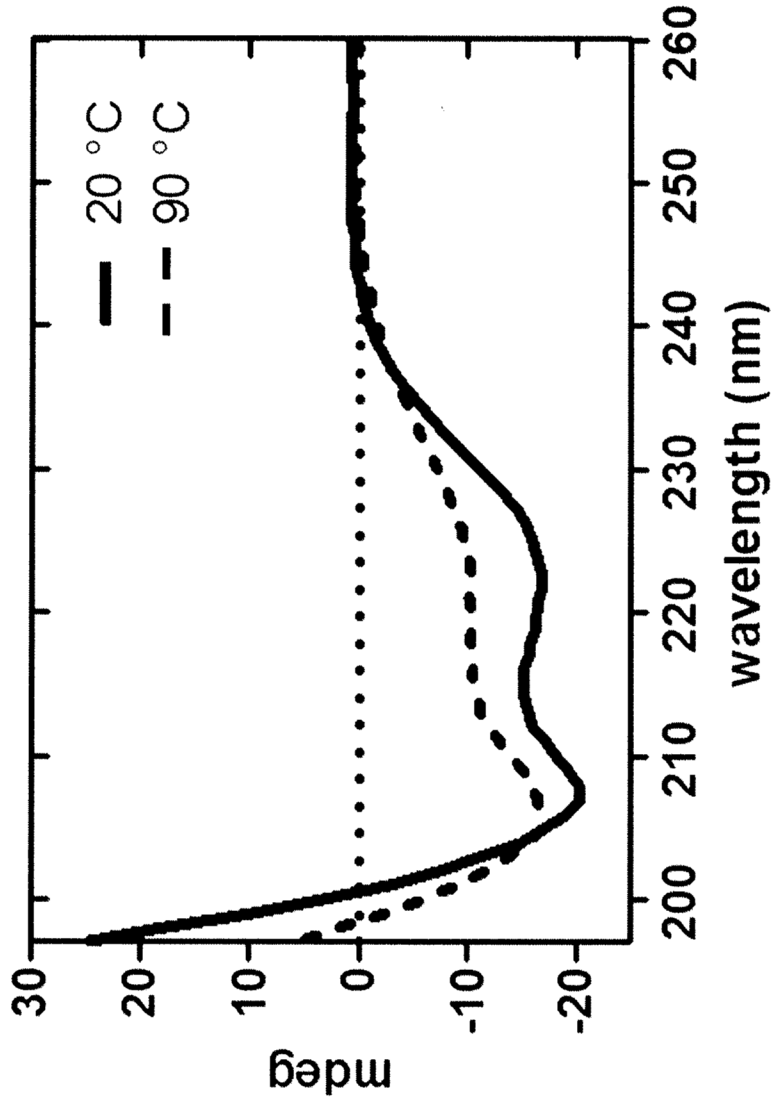


Figure 9

