

TABLE S4

Design Protocol		CheY Interface Residues											Identical to Native	
		90	92	95	99	104	105	106	107	108	119	122	#	%
NATIVE		A	K	I	A	S	G	Y	V	V	K	K	11	
MULTI		W	+	+	G	P	S	+	F	S	+	R	4	36%
SINGLE	1F4V	R	R	+	W	N	S	H	W	S	+	I	2	18%
	1FFG	H	+	Q	+	P	H	+	W	F	W	+	4	36%
	1KMI	T	W	+	G	T	N	H	H	W	+	R	2	18%