

TABLE S5

Design Protocol	Phosphocarrier Protein HPR Interface Residues											Identical to Native	
	11	12	15	16	47	48	51	52	53	54	55	#	%
NATIVE	D	S	H	A	I	M	M	S	L	G	I	11	
MULTI	R	R	+	W	H	+	F	+	H	+	F	4	36%
SINGLE 1KKL	R	G	R	S	R	+	W	+	H	+	Y	3	27%
1RZR	H	W	+	W	H	L	F	Q	W	+	E	2	18%