Supplementary Table 2 List of the major hydrophobic interactions and H-bonds in the off7/MBP complex.

off7 interaction residue (repeat module #) ^a	H-bond ^b	MBP interaction residue
		(helix #) ^a
THR 48 *° (1)		LYS 216 (H9)
TYR 56 * (1)		LYS 216 (H9)
TYR 56 * (1)	OH<-NZ (3.11 Å)	LYS 154 (H7)
VAL 78 * (2)		SER 366 (H17)
VAL 78 * (2)		GLY 367 (H17)
PHE 79 * (2)		LYS 214 (H9)
PHE 79 * (2)		VAL 210 (H9)
PHE 79 * (2)		ALA 365 (H17)
TYR 81 * (2)		LYS 214 (H9)
TYR 81 * (2)	OH<-ND2 (2.80 Å)	ASN 215 (H9)
LEU 86 (2)		LYS 216 (H9)
TYR 89 * (2)		ASN 215 (H9)
TYR 89 * (2)		HIS 217 (H9)
TYR 89 * (2)	O<-NZ (2.85 Å)	LYS 151 (H7)
TRP 90 * (2)	NE1->O (3.08 Å)	ASN 215 (H9)
TRP 90 * (2)		HIS 217 (H9)
TRP 90 * (2)		ASP 150 (H7)
ASP 110 (3)	OD2<-NZ (2.68 Å)	LYS 214 (H9)
ASP 112 * (3)		LYS 214 (H9)
TRP 123 * (3)		LYS 151 (H7)
TRP 123 * (3)		ALA 148 (H7)
TYR 125 (3)	OH<-NZ (2.48 Å)	LYS 151 (H7)

^a A cut-off of 3.9 Å was applied for hydrophobic interactions. Bold entries denote residues contributing with more than 5% to the total buried surface area.

^b A cut-off of 3.9 Å for donor-acceptor and 2.5 Å for hydrogen-acceptor was applied.

^c A star indicates that this amino acid is located in a randomized library position of off7.