

Supplementary information, Table S1

Table S1 Interactions between the WOPR domain and the dsDNA

WOPR domain	Distance (Å)	Mediation	Distance (Å)	dsDNA
Hydrophilic interactions between the residues and the bases				
Arg65-N ⁿ			3.4	T7'-O2
Arg65-N ⁿ			2.7	T6'-O2
Arg65-N ⁿ			3.3	A5'-N3
Arg65-N ⁿ	3.1	Wat	2.8	A6-N3
Arg65-N ⁿ	3.1	Wat	3.2	A7-N3
Ser75-O ^y			2.9	C9-N4
Ser75-O ^y	2.7	Wat	3.1	T10-O4
Ser75-O	3.1	Wat	3.1	T10-O4
Ser75-O	3.4	Wat	2.7	A8-N7
Ser75-O ^y	3.2	Wat	2.9	A10'-N6
Ser75-O	2.7	Wat	2.9	A10'-N6
Arg76-N ⁿ	2.9	Wat	2.8	A10'-N7
Arg76-N ⁿ	3.2	Wat	2.9	A10'-N6
Hydrophobic interactions between the residues and the bases				
I77-C ^δ			4.3	T10-C7
L82-C ^δ			4.5	T10-C7
L82-C ^δ			3.8	C9-C6
Hydrophilic interactions between the residues and the phosphates				
Arg38-N ⁿ			3.1	A4'-phosphate
Lys64-N			2.7	A4'-phosphate
Arg65-N			2.9	A4'-phosphate
Trp66-N			2.8	A8-phosphate
Thr67-O ^y			2.8	C3'-phosphate
Asp68-O ^δ	2.9	Wat	2.7	A7-phosphate
Asp68-N	3.0	Wat	2.7	A7-phosphate
Arg76-N ⁿ			2.9	A11'-phosphate
Tyr84-O ⁿ	2.5	Wat	2.9	A8-phosphate
Lys206-N ^c	2.8	Wat	2.7	A7-phosphate
Lys206-N ^c			3.1	A8-phosphate
Thr208-O ^y	2.8	Wat	2.9	A8-phosphate
Thr208-O ^y	2.7	Wat	2.8	C9-phosphate
Thr208-O	3.2	Wat	2.8	C9-phosphate
Thr210-O ^y			2.7	C9-phosphate
His230-N ^δ	2.5	Wat	2.6	A8-phosphate