

**Table S9.** Detailed list of **rmsd** values calculated from fitting each DNA structure in the complexes from group-MultiProteins:DNA to a corresponding canonical A-DNA and B-DNA.

	<u>A-DNA</u>	<u>B-DNA</u>
<b>1A02</b>	10.245	4.923
<b>1AKH</b>	10.006	6.029
<b>1AWC</b>	7.788	3.091
<b>1B72</b>	7.639	2.497
<b>1B8I</b>	9.744	4.553
<b>1CF7</b>	6.997	1.476
<b>1CQT</b>	6.765	1.656
<b>1D3U</b>	8.382	9.838
<b>1DSZ</b>	6.43	1.428
<b>1FOS</b>	8.018	2.396
<b>1GT0</b>	9.702	5.438
<b>1H8A</b>	9.058	3.138
<b>1H9D</b>	4.312	1.641
<b>1HBX</b>	9.72	7.083
<b>1HJB</b>	8.611	4.1
<b>1IO4</b>	8.458	3.263
<b>1JEY</b>	19.454	18.705
<b>1JFI</b>	5.144	8.617
<b>1K6O</b>	7.746	5.689
<b>1K78</b>	10.901	4.786
<b>1LB2</b>	14.308	9.81
<b>1LE5</b>	7.574	2.751
<b>1LE8</b>	8.15	4.817
<b>1MDM</b>	9.174	2.756
<b>1MNM</b>	7.139	10.453
<b>1N6J</b>	-	-
<b>1NGM</b>	7.011	7.32
<b>1NH2</b>	5.011	7.35
<b>1NKP</b>	7.41	3.029
<b>1NLW</b>	5.501	2.51
<b>1O4X</b>	6.902	4.419
<b>1OUZ</b>	8.659	4.138
<b>1PUF</b>	8.064	2.874
<b>1R0O</b>	8.844	2.862
<b>1RIO</b>	8.215	3.945
<b>1RZR</b>	5.728	3.582
<b>1T2K</b>	9.681	3.923
<b>1TQE</b>	9.11	3.7
<b>1X9M</b>	4.002	5.453
<b>1XS9</b>	6.387	4.435
<b>1YNW</b>	8.225	2.434
<b>2AS5</b>	9.968	5.25
<b>2BSQ</b>	8.604	5.667
<b>2F8X</b>	6.263	1.957
<b>2FO1</b>	9.834	4.532
<b>2NLL</b>	6.81	1.501