

Supplemental Table S3. Summary of measured fluorescence polarization values of UvrAB complexes.

Damaged oligonucleotides (ds)	Fluorescence polarization value of labeled TMR			
	Oligonucleotide probe (ds)	UvrA complex	UvrAB complex	UvrB complex
5'TMR-45 <sup>th</sup> (+)trans-BPDE-ds90mer	--	0.230 ± 0.015	0.345 ± 0.020	0.333 ± 0.002
5'TMR-45 <sup>th</sup> (-)trans-BPDE-ds90mer	0.237 ± 0.013	0.237 ± 0.013	0.364 ± 0.012	0.357 ± 0.007
5'TMR-35 <sup>th</sup> (-)trans-BPDE-ds80mer	0.231 ± 0.007	0.232 ± 0.007	0.343 ± 0.016	0.359 ± 0.010
5'TMR-60 <sup>th</sup> (-)trans-BPDE-ds105mer	0.196 ± 0.008	0.208 ± 0.008	0.207 ± 0.015	0.200 ± 0.005
5'TMR-60 <sup>th</sup> FAM-ds105mer	0.180 ± 0.017	0.223 ± 0.008	0.275 ± 0.033	0.166 ± 0.019
5'TMR-Bubble-45 <sup>th</sup> FAM-ds90mer (6bp unpaired)	0.166 ± 0.002	0.199 ± 0.002	0.250 ± 0.016	0.210 ± 0.006
5'TMR-45 <sup>th</sup> FAM-ds90mer	0.220 ± 0.009	0.218 ± 0.004	0.351	0.349 ± 0.016
5'TMR-35 <sup>th</sup> FAM-ds80mer	0.211 ± 0.015	0.204 ± 0.005	0.337 ± 0.006	0.305 ± 0.009
5'TMR-25 <sup>th</sup> FAM-ds70mer	0.211 ± 0.010	0.225 ± 0.010	0.233 ± 0.005	0.216 ± 0.010
45 <sup>th</sup> intTMR-ds90mer	0.273 ± 0.016	0.365 ± 0.022	0.372 ± 0.014	0.370 ± 0.013
5'TMR-GAP-ds90mer	0.218 ± 0.011	0.206 ± 0.005	0.344 ± 0.008	0.366 ± 0.007

Values represent mean ± standard deviation from at least 3 replicate measurements (n ≥ 3)