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907 **Supplementary Table 1. Oligonucleotides used in this study.**

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909 Oligonucleotides for studies of cleavage of fluorescent Holiday Junctions: HJ<sup>FS</sup>

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911 Oligo 1: 5'-TCCTACCACCAGATACACGCCACAGTTTTTTTTTTGATTA-3'-F

912 Oligo 2: 5'-TAATCAAAAAAAAAAACTGTGCAGATGCGGAGTGAAGTTCC-3'

913 Oligo 3: 5'-GGAACTTCACTCCGCATCTGATCTTTGCCGTCTTGTCAAA-3'

914 Oligo 4: 5'-TTTGACAAGACGGCAAAGATGCGTGTATCTGGTGGTAGGA-3'

915 Oligo 5: 5'-TAATCAAAAAAAAAAACTGTGGCGTGTATCTGGTGGTAGGA-3'

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917 Oligonucleotides used for Junction 1

918 B strand: 5'-

919 CGCAAGCGACAGGAACCTCGAGGGATCCGTCCTAGCAAGCCGCTGCTACCGGA

920 AGCTTCTCGAGGTTCCCTGTCGCTTGCG-3'

921 H strand: 5'-

922 CGCAAGCGACAGGAACCTCGAGAAGCTTCCGGTAGCAGCGAGAGCGGTGGTTG

923 AATTCCTCGAGGTTCCCTGTCGCTTGCG-3'

924 R strand: 5'-

925 CGCAAGCGACAGGAACCTCGAGGAATTCAACCACCGCTCTTCTCAACTGCAGT

926 CTAGACTCGAGGTTCCCTGTCGCTTGCG-3'

927 X strand: 5'-  
928 CGCAAGCGACAGGAACCTCGAGTCTAGACTGCAGTTGAGAGCTTGCTAGGACG  
929 GATCCCTCGAGGTTCCCTGTCGCTTGCG-3'

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932 Oligonucleotides used for Junction 1S

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934 B strand: 5'-AGGGATCCGTCCTAGCAAGCCGCTGCTACCGGAAGCTTCT-3'

935 H strand: 5'-AGAAGCTTCCGGTAGCAGCGAGAGCGGTGGTTGAATTCCT-3'

936 R strand: 5'-AGGAATTCAACCACCGCTCTTCTCAACTGCAGTCTAGACT-3'

937 X strand: 5'-AGTCTAGACTGCAGTTGAGAGCTTGCTAGGACGGATCCCT-3'

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### 939 **Supplementary Report**

940 Examples of DNA binding data and reaction progression curves used for kinetic studies

941 in Tables 1 and 2.

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