SUPPORTING INFORMATION

Photoreaction at 5[´]–(G/C)AA^{Br}UT–3[´] Sequences in Duplex DNA: Efficent Generation of Uracil-5-yl Radical by Charge Transfer

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FigureS1. HPLC analysis of UV-irradiated (a) ODN1, (b) ODN2, and (c) ODN3. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (5 fold).



FigureS2. HPLC analysis of UV-irradiated (a) ODN4, (b) ODN5, and (c) ODN6. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (5 fold).



FigureS3. HPLC analysis of UV-irradiated (a) ODN7, and (b) ODN8. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (5 fold).



FigureS4. HPLC analysis of UV-irradiated (a) ODN9, (b) ODN10, and (c) ODN11. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (10 fold).



FigureS5. HPLC analysis of UV-irradiated (a) ODN12, and (b) ODN13. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (10 fold).



FigureS6. HPLC analysis of UV-irradiated (a) ODN14, (b) ODN15, and (c) ODN16. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (15 fold).



FigureS7. HPLC analysis of UV-irradiated (a) ODN17, (b) ODN18, and (c) ODN19. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (15 fold). *cyclobutane dimer.



FigureS8. HPLC analysis of UV-irradiated ODN20. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (15 fold). *cyclobutane dimer.



FigureS9. HPLC analysis of UV-irradiated (a) ODN21, (b) ODN22, and (c) ODN23. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (5 fold). *cyclobutane dimer.

FigureS10. HPLC analysis of UV-irradiated (a) ODN24, (b) ODN25, and (c) ODN26. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (5 fold). *cyclobutane dimer.

FigureS11. HPLC analysis of UV-irradiated ODN 27. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (5 fold). *cyclobutane dimer.

FigureS12. HPLC analysis of UV-irradiated (a) ODN28, (b) ODN29, and (c) ODN30. L indicates the 2'-deoxyribonolactone. Top chart indicates the HPLC profile before photoirradiation. Middle chart indicates the HPLC profile after photoirradiation. Bottom chart is the expansion (20 fold).