

Figure S5. Effects of nucleotide context (trimer content) on bpsm rates. A) Heatmap of the context dependent base-substitution mutation (bpsm) rates for the 64 possible trimer combinations based on their lagging strand orientation in MMR-deficient mutation accumulation lineages of *V. fischeri* (A) and *V. cholerae* (B). B) Patterns of base-substitution mutation (bpsm) rates in 100 Kb intervals extending clockwise from the origin of replication (oriCl) in MMR-deficient mutation accumulation lineages of *V. fischeri* (C) and *V. cholerae* (D). Observed patterns of bpsm rates (gray lines) on chromosome 1 (Chr1) and chromosome 2 (Chr2) are compared to the expected patterns of bpsm rates (blue lines) based on the trimer content of the interval. Bpsm rates differ significantly from expectations based on trimer content: Chi-square test; Vf-mut: Chr1 - χ 2 = 137.24, df = 29, p < 0.0001, Chr2 - χ 2 = 20.04, df = 15, p = 0.1703; Vc-mut: Chr1 - χ 2 = 107.55, df = 29, p < 0.0001, Chr2 - χ 2 = 14.87, df = 1, p = 0.1887)