

Mutagenesis reactions. The mutagenesis protocol and solutions derive from the Bio-Rad Muta-Gene Mutagenesis Kit, version 2. Six mutants were generated containing "silent" base substitutions that reduced the local A-bias in a short segment of pol without altering the amino acid sequence using the following, partially overlapping 5' phosphorylated oligos (numbers in parentheses indicate 5' coordinate): H2 (2712) 5'-CCATACAACACCCCCGTGTTCCGCC-ATCAAGAAGAAGGACAGTACCAAATGGAG-3', H3 (2748) 5'-GACAGT-ACCAAGTGGCGCAAGCTGGTGGACTTCAGGAGCTGAACAAGAGGA-CCCACTGG-3', H4 (2808) 5'-TGGGAAGTGCAGCTGGGCATCCCCACC-CCGCCGGGTAAAGCAGAAGAAGTCCGTAACAGTACTG-3', H5 (2865) 5'-GTAACAGTGCTGGATGTGGGCGATGCCTACTTCTCCGTGCCCCCT-GGATAAAGAC-3', H6 (2922) 5'-AGGAAGTACACCGCCTTCACCATCC-CCAGTATCAACAACGAGACCCCAGGG-3', and H7 (2967) 5'-CCAGGGA-TCCGCTACCAAGGGCTCCCCGCAATATTC-3'. Mutagene kit annealing buffer was added to 0.6 pmol ssDNA template to a final volume of 10 ul. Reactions were heated in a heating block to 94 and then cooled at a rate of 2 degrees/minute until 40 was reached, then they were