

TABLE S1: Execution Time of SciClone (Variational Bayes) and PyClone (MCMC)

| Data Set | SciClone | PyClone | | |
|---------------------------|---------------------------------|------------|---------|-----------------------------------|
| | Elapsed Time (sec) ^a | Iterations | Burn-in | Elapsed Time (sec) ^{a,b} |
| MM ^c (Fig. 1) | 137.439 (20.053) | 20,000 | 2,000 | 4,048.451 (207.430) |
| AML ^d (Fig. 3) | 49.837 (2.867) | 20,000 | 2,000 | 14,267.76 (303.021) |
| BRC ^c (Fig. 5) | 158.856 (9.946) | 22,000 | 2,200 | 2,265.293 (68.893) |

^aMean elapsed time across ten runs. Standard deviation in parentheses.

^bElapsed times include analysis (**PyClone analyze**) and clustering (**PyClone cluster**).

^cAnalysis restricted to variants in copy-number neutral regions.

^dAll variants are in copy-number neutral regions.