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| **Table S1.** Comparison of mean core SNP differences between unique core SNP profiles within and between phylogenetic clades. |
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| **Clade Comparison** | **Mean SNP Difference ± Std. Dev.** | **Minimum SNP Difference** | **Maximum SNP Difference** |
| All profiles (Clade 1, *n* = 430; Clade 2, *n* = 37; Clade 3, *n* = 62) |  |
| Overall | 1903.08 ± 3288.69 | 1 | 9287 |
| Clade 1 | 7.72 ± 5.61 | 1 | 71 |
| Clade 2 | 59.23 ± 44.10 | 1 | 208 |
| Clade 3 | 32.87 ± 16.84 | 1 | 63 |
| Clade 1 vs. Clade 2 | 1638.72 ± 8.49 | 1625 | 1711 |
| Clade 1 vs. Clade 3 | 8165.04 ± 10.91 | 8147 | 8227 |
| Clade 2 vs. Clade 3 | 9246.30 ± 12.72 | 9223 | 9287 |
| Random profile subset (*n* = 37 samples per clade) |  |  |
| Overall | 4282.82 ± 4047.42 | 1 | 9287 |
| Clade 1 | 8.52 ± 6.15 | 2 | 30 |
| Clade 2 | 59.23 ± 44.10 | 1 | 208 |
| Clade 3 | 32.64 ± 16.43 | 1 | 63 |
| Clade 1 vs. Clade 2 | 1639.30 ± 8.72 | 1626 | 1682 |
| Clade 1 vs. Clade 3  | 8165.14 ± 11.30 | 8148 | 8198 |
| Clade 2 vs. Clade 3 | 9245.77 ± 12.95 | 9223 | 9287 |