**Supporting information**

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| **S1 Table.** **Number of plants for each maternal genotype, population and treatment (UV-present and UV-exclusion treatments).** The number of plants sampled for anthocyanin and UV-absorbing compound concentration is indicated in parentheses. | | | |
| **Population** | **Maternal family** | **Treatment** | |
| **UV-present** | **UV-exclusion** |
| Sines | 1 | 4 (3) | 3 (3) |
| 2 | 5 (4) | 4 (4) |
| 3 | 0 (0) | 1 (1) |
| 4 | 5 (5) | 9 (7) |
| Furnas | 5 | 2 (1) | 2 (2) |
| 6 | 2 (2) | 0 (0) |
| 7 | 6 (5) | 2 (2) |
| 8 | 4 (4) | 0 (0) |
| 9 | 13 (10) | 3 (3) |
| Total | 9 | 41 (34) | 24 (22) |