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| **SV ID** | **LRS** | **Ancestry component** | **eQTL gene** | **eQTL beta perm. p-value** |
| 10847\_AK1\_del | 81.2 | 2 | *SPDYE18* | 2.9 x 10-3 |
| 1400\_HG00268\_del | 49.6 | 2 | *IL6R* | 2.1 x 10-3 |
| 18458\_HG01352\_del | 61.2 | 2 | *ZNF295-AS1* | 2.6 x 10-4 |
| 20576\_CHM13\_ins | 59.3 | 2 | *RP11-578F21.9* | 3.3 x 10-3 |
| 21859\_NA19240\_ins | 159.1 | 4 | *MIR4519* | 2.8 x 10-6 |
| 22622\_HG04217\_del | 53.0 | 2 | *RP11-511H23.2* | 3.7 x 10-3 |
| 46317\_HG04217\_del | 86.7 | 6 | *RP11-848P1.7* | 3.4 x 10-3 |

**Supplementary File 2.** Highly differentiated SVs that are also significant eQTLs.