|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Phenotype | Related dogs **included**  Chr:bp | Related dogs **included**  P-value | Related dogs **excluded**  Chr:bp | Related dogs **excluded**  P-value |
| PC1 | 15:41229597 | 1.93x10-8 | 15:41229597 | 1.08x10-8 |
| PC2 | 26:15666332 | 5.75x10-7 | 26:15666332 | 1.94x10-6 |
| PC3 | 16:5181388 | 1.91x10-7 | 3:33109793 | 6.45x10-6 |
| PC4 | 5:36523896 | 2.47x10-6 | 21:19984047 | 2.41x10-6 |
| PC5 | 1:91463706 | 6.67x10-7 | 5:51013074 | 4.75x10-7 |