**Table S2.** Results of IBD mapping for the consanguineous pedigree with RA.

|  |  |  |  |
| --- | --- | --- | --- |
| Subjects observed for IBD stretches | No. IBD stretches | Total length of IBD stretches (Mbp) | Proportion to human genome |
| 5 RA case and 1 ACPA+ control | 14 | 115.9 | 3.7% |
| 5 RA case and 1 ACPA+ control and ≤ 15/18 ACPA- controls | 13 | 114.4 | 3.7% |
| 5 RA case and 1 ACPA+ control and ≤ 12/18 ACPA- controls | 9 | 92.9 | 3.0% |
| 5 RA case and 1 ACPA+ control and ≤ 9/18 ACPA- controls | 2 | 11.0 | 0.35% |
| 5 RA case and 1 ACPA+ control and ≤ 6/18 ACPA- controls | 1 | 2.4 | 0.08% |
| 5 RA case and 1 ACPA+ control and ≤ 3/18 ACPA- controls | 0 | 0 | 0% |
| 5 RA case and 1 ACPA+ control and ≤ 0/18 ACPA- controls | 0 | 0 | 0% |

RA; rheumatoid arthritis, ACPA; anti-citrullinated protein antibodies.