

S1 Table. Summary of the exome sequencing performance

| Family ID | Subject ID | Coverage | | | |
|-----------|------------|---------------|---------------|---------------|---------------|
| | | No. of bases | Average depth | % bases > 10x | % bases > 20x |
| F1 | P2 | 3,237,878,527 | 96.73 | 96.2 | 93.2 |
| F2 | P3 | 7,322,411,597 | 218.76 | 97.2 | 96.5 |
| F3 | P4 | 2,534,981,177 | 75.73 | 91.5 | 83.9 |
| F3 | P5 | 6,835,737,251 | 204.22 | 97.2 | 96.3 |
| F4 | P6 | 6,200,400,067 | 185.24 | 97.2 | 96.3 |
| F5 | P7 | 6,242,207,776 | 186.49 | 97 | 95.7 |
| F6 | P8 | 3,653,285,254 | 109.14 | 96.3 | 93.7 |
| F7 | P9 | 3,857,929,421 | 115.26 | 96.5 | 94.1 |
| F8 | P10 | 3,445,155,985 | 102.93 | 96.4 | 93.6 |
| F8 | P11 | 3,853,068,512 | 115.11 | 96.6 | 94.5 |
| F8 | P12 | 2,978,147,369 | 88.97 | 96.2 | 92.8 |