**Supplementary Table 3. Summary of original exome sequencing data**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family ID** | **Member ID** | **Total\_reads** | **Mapped\_reads** | **Mapped\_reads (%)** | **Duplicates** | **Duplicates (%)** | **Median\_insert\_size** | **GC (%)** |
| F1 |  I-1 | 53,050,802  | 52,934,860  | 99.78  | 2,951,376  | 5.56  | 191 | 45 |
| F1 |  I-2 | 77,205,841  | 77,056,386  | 99.81  | 5,862,654  | 7.59  | 172 | 45 |
| F1 | II-1 | 103,867,981  | 103,666,909  | 99.81  | 8,422,650  | 8.11  | 175 | 45 |
| F2 |  I-1 | 14,835,413  | 14,813,611  | 99.85  | 214,283  | 1.44  | 210 | 46 |
| F2 |  I-3 | 23,547,611  | 23,518,992  | 99.88  | 451,288  | 1.92  | 186 | 46 |
| F2 |  I-4 | 66,588,817  | 66,430,541  | 99.76  | 4,375,259  | 6.57  | 188 | 47 |
| F2 |  I-5 | 50,190,109  | 50,074,186  | 99.77  | 3,008,468  | 5.99  | 188 | 47 |
| F2 |  I-6 | 47,334,185  | 47,197,742  | 99.71  | 3,045,731  | 6.43  | 174 | 45 |
| F2 | II-1 | 71,226,839  | 71,087,013  | 99.80  | 4,246,336  | 5.96  | 183 | 45 |
| F2 | II-2 | 85,795,786  | 85,737,555  | 99.93  | 3,702,124  | 4.32  | 217  | 47 |
| F2 | II-3 | 65,552,917  | 65,403,562  | 99.77  | 4,476,058  | 6.83  | 187 | 47 |
| F2 | III-1 | 73,441,220  | 73,387,367  | 99.93  | 4,445,073  | 6.05  | 226  | 46 |
| F3 |  I-1 | 92,078,624  | 91,964,691  | 99.88  | 4,550,684  | 4.94  | 219  | 46 |
| F3 |  I-2 | 99,914,456  | 99,805,514  | 99.89  | 5,499,548  | 5.50  | 213  | 46 |
| F3 |  I-3 | 99,072,434  | 98,952,949  | 99.88  | 4,627,309  | 4.67  | 209  | 47 |
| F3 | II-2 | 82,991,996  | 82,882,557  | 99.87  | 3,967,543  | 4.78  | 250  | 47 |
| F3 | II-3 | 68,592,044  | 68,377,603  | 99.69  | 2,296,996  | 3.35  | 216  | 47 |
| F3 | II-4 | 69,441,986  | 69,206,509  | 99.66  | 2,953,825  | 4.25  | 204  | 46 |
| F3 | III-1 | 74,962,852  | 74,733,994  | 99.69  | 2,534,412  | 3.38  | 202  | 46 |