**S2 Table. Sequencing on-target rates**

|  |  |  |  |
| --- | --- | --- | --- |
| ID# | On-target templates | Total templates | On-target rate |
| 685 | 77,078  |  115,570  | 66.7% |
| 686 | 47,979  |  93,042  | 51.6% |
| 687 | 65,557  |  98,574  | 66.5% |
| 688 | 65,291  |  95,025  | 68.7% |
| 689 | 52,088  |  91,207  | 57.1% |
| 690 | 48,406  |  84,249  | 57.5% |
| 691 | 54,781  |  95,012  | 57.7% |
| 692 | 45,849  |  75,867  | 60.4% |
| 693 | 52,342  |  80,762  | 64.8% |
| 694 | 52,651  |  81,492  | 64.6% |
| 695 | 55,105  |  84,333  | 65.3% |
| 696 | 35,650  |  69,920  | 51.0% |
| 697 | 47,123  |  83,737  | 56.3% |
| 698 | 44,213  |  79,302  | 55.8% |
| 699 | 49,045  |  71,608  | 68.5% |
| 700 | 50,193  |  89,387  | 56.2% |

Sequencing summary for 16 family members. On-target rate is calculated as the number of unique templates for a given sample after deduplication.