

Additional file 6: Table S5. Sequencing metrics of NGS runs for the technical validation of the custom NGS panel.

| Metric | Forward read | | Reverse read | |
|------------------------------|---------------------|--------------|---------------------|--------------|
| | Run 1 | Run 2 | Run 1 | Run 2 |
| Cluster Density (K/mm2) | 860 ± 28 | 878 ± 17 | 860 ± 28 | 878 ± 17 |
| Clusters PF (%) ¹ | 94.76 ± 0.53 | 93.09 ± 1.44 | 94.76 ± 0.53 | 93.09 ± 1.44 |
| % ≥ Q30 ² | 97.80 | 97.35 | 96.12 | 95.27 |

¹ The percentage of clusters passing filter (%PF) is an indication of signal purity from each cluster. ² Q30 indicates an accuracy of 99.9%. The percentage of bases >Q30 is averaged across the entire run. The Miseq System specifications are 865-965 K/mm2 cluster density and >80% of bases above Q30. K, kilobases; PF, passing filter.