HIFI WGS AT SCALE ON THE SEQUEL IIe SYSTEM

Scale your whole genome sequencing (WGS) and epigenome workflows with PacBio® HiFi reads employing a single technician working one day a week. Sequence 25 human genomes at ≥ 30-fold coverage each month using four Sequel® II systems.*

1 technician + 1 day per week =
5 SMRT® Cells per Sequel IIe system for up to 4 Sequel IIe systems

**LIBRARY PREP**
- SMRTbell® prep kit 3.0 + AMPure® PB bead size selection
- 1 µg of DNA per SMRT Cell 8M
- Automation-friendly
- Up to 24 WGS samples prepared in 6.5 hours
- Single workflow for HiFi reads + 5mC base calling

**SMRT® SEQUENCING**
- Sequel IIe system
- 6.5 days of walk-away automated runtime
- On-instrument base and 5mC calling allowing low compute costs
- Data transferred to server automatically after each SMRT Cell 8M is processed

**DATA ANALYSIS**
- SMRT® Link
- HiFi reads + 5mC calling allow complete view of the genome and epigenome from a single data type
- Low data storage costs with 35 GB file sizes per SMRT Cell (175 GB per week per instrument)

A convenient schedule that maximizes system utilization for 5 SMRT Cells a week is shown below.

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Day 2</th>
<th>Day 3</th>
<th>Day 4</th>
<th>Day 5</th>
<th>Day 6</th>
<th>Day 7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Week 1</strong></td>
<td>Run 1 on Sequel IIe system (5 SMRT Cell 8M)</td>
<td>Single technician (6-8 hours)</td>
<td>SMRT Cell 1 Data analysis</td>
<td>SMRT Cell 2 Data analysis</td>
<td>SMRT Cell 3 Data analysis</td>
<td>SMRT Cell 4 Data analysis</td>
</tr>
</tbody>
</table>

| **Week 2** | Run 2 on Sequel IIe system (5 SMRT Cell 8M) | SMRT Cell 5 Data analysis | SMRT Cell 6 Data analysis | SMRT Cell 7 Data analysis | SMRT Cell 8 Data analysis | SMRT Cell 9 Data analysis |

*At 30 Gb of HiFi yield per SMRT Cell 8M. Contact PacBio for specific sequencing run parameters.

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