**Table S7**.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sample** | **Human Serum (SRR332232)a** |  | **Yeast (SRR014350)a** |
| Search Method | Strategy 0 | Strategy 1 | Strategy 2 |  | Strategy 0 | Strategy 1 | Strategy 2 |
| Endogenous Sequence | 15.33% | 48.75% | 70.78% |  | 16.01% | 27.16% | 36.16% |
| Bacteria Sequence b | 7.79% | 1.09% | 0.04% |  | 0.28% | 0.02% | 0.00% |
| Fungi Sequence b | 1.47% | 0.46% | 0.08% |  | 0.11% | 0.11% | 0.11% |
| Other Sequence b | 50.96% | 28.14% | 12.66% |  | 0.09% | 0.03% | 0.03% |
| Unmapped Sequence | 24.45% | 21.56% | 16.44% |  | 83.51% | 72.68% | 63.70% |

1. Numbers in parentheses are the access numbers.
2. To increase the sequence mapping accuracy, we did not allow any sequence mismatch except in the endogenous sequence search step.