**Supplemental Table 3. Batch Assignment, RNA QC, and sequencing QC for the testing and training cohorts.\***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample ID**  | **Class** | **Batch** | **260/280** | **RIN** | **M Seqs** | **Seq Length**  | **%GC** | **% Aligned** |
| ***Training Cohort*** |   |   |   |   |  |  |  |
| C1 | Control | 2 | 1.98 | 7.5 | 45.5 | 51 | 48 | 97 |
| C2 | Control | 1 | 2.06 | 7.9 | 39.9 | 51 | 48 | 96 |
| C3 | Control | 1 | 2.07 | 7.0 | 27.0 | 51 | 48 | 95 |
| C4 | Control | 2 | 1.99 | 6.1 | 31.6 | 51 | 48 | 95 |
| C5 | Control | 1 | 2.02 | 7.4 | 59.3 | 51 | 49 | 94 |
| C6 | Control | 1 | 2.05 | 6.6 | 35.9 | 51 | 49 | 93 |
| C7 | Control | 1 | 2.05 | 7.9 | 97.4 | 51 | 50 | 95 |
| C8 | Control | 1 | 1.92 | 6.6 | 44.2 | 51 | 49 | 95 |
| C9 | Control | 1 | 2.08 | 6.2 | 36.2 | 51 | 49 | 94 |
| C10 | Control | 1 | 2.04 | 7.3 | 79.3 | 51 | 49 | 95 |
| C11 | Control | 1 | 2.04 | 6.6 | 66.0 | 51 | 50 | 94 |
| C12 | Control | 1 | 2.03 | 5.9 | 58.5 | 51 | 51 | 94 |
| C13 | Control | 1 | 2.06 | 5.9 | 64.3 | 51 | 51 | 93 |
| C14 | Control | 1 | 2.10 | 5.5 | 36.9 | 51 | 51 | 95 |
| C15 | Control | 2 | 2.05 | 7.7 | 57.6 | 51 | 46 | 96 |
| C16 | Control | 2 | 2.07 | 6.0 | 61.4 | 51 | 49 | 95 |
| C17 | Control | 2 | 2.10 | 6.1 | 47.1 | 51 | 46 | 94 |
| C18 | Control | 2 | 2.09 | 7.0 | 64.9 | 51 | 45 | 94 |
| C19 | Control | 2 | 2.09 | 7.9 | 65.9 | 51 | 47 | 96 |
| C20 | Control | 2 | 2.06 | 9.0 | 79.2 | 51 | 49 | 96 |
| C21 | Control | 1 | 1.86 | 5.0 | 64.6 | 51 | 50 | 93 |
| C22 | Control | 2 | 2.00 | 8.8 | 61.0 | 51 | 47 | 97 |
| C23 | Control | 2 | 2.02 | 4.5 | 27.8 | 51 | 52 | 94 |
| C24 | Control | 2 | 1.98 | 5.1 | 63.5 | 51 | 48 | 96 |
| C25 | Control | 2 | 2.05 | 8.0 | 68.3 | 51 | 47 | 97 |
| C26 | Control | 2 | 2.07 | 5.2 | 62.3 | 51 | 49 | 95 |
| C27 | Control | 2 | 2.06 | 5.3 | 73.1 | 51 | 49 | 95 |
| C28 | Control | 1 | 2.02 | 8.2 | 47.3 | 51 | 50 | 94 |
| C29 | Control | 2 | 2.02 | 6.6 | 63.4 | 51 | 49 | 95 |
| C30 | Control | 2 | 2.01 | 5.5 | 70.9 | 51 | 50 | 97 |
| C31 | Control | 2 | 2.05 | 8.5 | 45.7 | 51 | 47 | 93 |
| C32 | Control | 2 | 2.06 | 6.7 | 55.1 | 51 | 47 | 97 |
| C33 | Control | 2 | 1.96 | 6.1 | 46.2 | 51 | 50 | 94 |
| C34 | Control | 2 | 2.08 | 7.8 | 46.6 | 51 | 46 | 95 |
| C35 | Control | 2 | 2.10 | 8.1 | 64.5 | 51 | 47 | 96 |
| C36 | Control | 2 | 2.08 | 8.4 | 36.1 | 51 | 45 | 94 |
| C37 | Control | 2 | 2.04 | 7.2 | 32.3 | 51 | 47 | 96 |
| C38 | Control | 2 | 2.07 | 6.9 | 46.2 | 51 | 45 | 93 |
| C39 | Control | 2 | 2.08 | 7.9 | 58.0 | 51 | 47 | 96 |
| C40 | Control | 2 | 1.98 | 4.6 | 67.4 | 51 | 52 | 96 |
| C41 | Control | 2 | 2.08 | 6.5 | 60.8 | 51 | 46 | 96 |
| C42 | Control | 2 | 2.04 | 5.2 | 64.3 | 51 | 47 | 95 |
| C43 | Control | 2 | 2.05 | 7.8 | 54.6 | 51 | 47 | 93 |
| C44 | Control | 2 | 2.01 | 6.7 | 65.1 | 51 | 45 | 97 |
| C45 | Control | 2 | 2.01 | 6.7 | 41.9 | 51 | 47 | 96 |
| C46 | Control | 2 | 2.04 | 6.8 | 68.7 | 51 | 47 | 95 |
| C47 | Control | 2 | 1.99 | 4.8 | 50.8 | 51 | 54 | 95 |
| C48 | Control | 2 | 2.09 | 8.0 | 66.2 | 51 | 47 | 96 |
| C49 | Control | 2 | 2.04 | 4.9 | 53.9 | 51 | 46 | 94 |
| C50 | Control | 2 | 2.04 | 7.2 | 55.9 | 51 | 46 | 95 |
| C51 | Control | 2 | 2.06 | 7.4 | 51.8 | 51 | 46 | 93 |
| C52 | Control | 2 | 2.04 | 7.3 | 41.5 | 51 | 47 | 92 |
| C53 | Control | 2 | 2.08 | 6.5 | 78.3 | 51 | 46 | 96 |
| C54 | Control | 2 | 2.06 | 5.1 | 45.0 | 51 | 48 | 95 |
| C55 | Control | 2 | 2.07 | 8.1 | 103.7 | 51 | 48 | 96 |
| A1 | Aneurysm | 1 | 2.04 | 7.8 | 48.1 | 51 | 49 | 96 |
| A2 | Aneurysm | 1 | 2.07 | 7.5 | 35.7 | 51 | 48 | 95 |
| A3 | Aneurysm | 1 | 2.07 | 7.1 | 34.0 | 51 | 49 | 95 |
| A4 | Aneurysm | 2 | 1.93 | 6.0 | 47.6 | 51 | 48 | 94 |
| A5 | Aneurysm | 1 | 2.06 | 8.1 | 60.4 | 51 | 49 | 95 |
| A6 | Aneurysm | 1 | 2.02 | 6.1 | 55.9 | 51 | 49 | 95 |
| A7 | Aneurysm | 1 | 2.03 | 7.3 | 61.3 | 51 | 49 | 95 |
| A8 | Aneurysm | 1 | 1.99 | 6.5 | 23.4 | 51 | 49 | 94 |
| A9 | Aneurysm | 1 | 1.97 | 6.9 | 14.6 | 51 | 49 | 93 |
| A10 | Aneurysm | 1 | 2.05 | 7.7 | 26.9 | 51 | 50 | 96 |
| A11 | Aneurysm | 1 | 2.07 | 6.0 | 29.1 | 51 | 50 | 95 |
| A12 | Aneurysm | 2 | 1.98 | 5.8 | 48.0 | 51 | 50 | 95 |
| A13 | Aneurysm | 2 | 2.04 | 5.6 | 66.5 | 51 | 46 | 95 |
| A14 | Aneurysm | 2 | 2.03 | 5.7 | 36.2 | 51 | 49 | 97 |
| A15 | Aneurysm | 1 | 2.07 | 7.8 | 32.3 | 51 | 50 | 87 |
| A16 | Aneurysm | 1 | 1.95 | 7.2 | 59.5 | 51 | 49 | 94 |
| A17 | Aneurysm | 1 | 2.08 | 7.1 | 55.6 | 51 | 51 | 92 |
| A18 | Aneurysm | 1 | 2.06 | 7.1 | 72.8 | 51 | 48 | 78 |
| A19 | Aneurysm | 1 | 2.00 | 6.9 | 64.9 | 51 | 50 | 95 |
| A20 | Aneurysm | 1 | 1.97 | 6.4 | 75.3 | 51 | 51 | 94 |
| A21 | Aneurysm | 2 | 2.09 | 6.0 | 48.7 | 51 | 47 | 96 |
| A22 | Aneurysm | 1 | 2.06 | 5.9 | 42.2 | 51 | 51 | 94 |
| A23 | Aneurysm | 1 | 2.12 | 7.3 | 47.2 | 51 | 51 | 88 |
| A24 | Aneurysm | 1 | 1.96 | 7.4 | 42.1 | 51 | 50 | 94 |
| A25 | Aneurysm | 2 | 2.02 | 7.6 | 59.3 | 51 | 49 | 97 |
| A26 | Aneurysm | 2 | 2.01 | 5.8 | 79.6 | 51 | 48 | 96 |
| A27 | Aneurysm | 2 | 2.02 | 5.2 | 41.1 | 51 | 48 | 95 |
| A28 | Aneurysm | 2 | 2.03 | 4.6 | 56.2 | 51 | 50 | 96 |
| A29 | Aneurysm | 2 | 2.06 | 7.4 | 58.5 | 51 | 49 | 97 |
| A30 | Aneurysm | 2 | 1.91 | 6.6 | 56.9 | 51 | 48 | 94 |
| A31 | Aneurysm | 2 | 2.06 | 6.0 | 56.4 | 51 | 47 | 95 |
| A32 | Aneurysm | 2 | 1.99 | 6.0 | 56.3 | 51 | 48 | 96 |
| A33 | Aneurysm | 2 | 2.06 | 8.2 | 45.8 | 51 | 46 | 96 |
| A34 | Aneurysm | 2 | 2.07 | 6.1 | 52.4 | 51 | 45 | 94 |
| A35 | Aneurysm | 2 | 2.07 | 7.2 | 53.4 | 51 | 48 | 96 |
| A36 | Aneurysm | 2 | 2.00 | 6.1 | 50.8 | 51 | 49 | 96 |
| A37 | Aneurysm | 2 | 2.07 | 5.7 | 66.3 | 51 | 48 | 95 |
| A38 | Aneurysm | 2 | 2.06 | 5.3 | 72.7 | 51 | 52 | 96 |
| A39 | Aneurysm | 2 | 2.10 | 5.1 | 19.9 | 51 | 48 | 96 |
| ***Testing Cohort*** |   |   |   |   |  |   |  |
| C56 | Control | 1 | 2.07 | 7.3 | 21.1 | 51 | 49 | 95 |
| C57 | Control | 1 | 2.06 | 6.3 | 41.9 | 51 | 49 | 91 |
| C58 | Control | 1 | 1.92 | 6.5 | 68.9 | 51 | 49 | 95 |
| C59 | Control | 1 | 1.99 | 7.1 | 53.3 | 51 | 50 | 94 |
| C60 | Control | 1 | 2.08 | 7.1 | 80.3 | 51 | 50 | 95 |
| C61 | Control | 1 | 1.96 | 6.7 | 67.8 | 51 | 49 | 95 |
| C62 | Control | 1 | 1.97 | 6.4 | 89.1 | 51 | 50 | 94 |
| C63 | Control | 1 | 2.05 | 6.0 | 74.4 | 51 | 50 | 94 |
| C64 | Control | 1 | 2.01 | 7.9 | 51.5 | 51 | 50 | 94 |
| C65 | Control | 2 | 2.09 | 9.0 | 51.5 | 51 | 46 | 97 |
| C66 | Control | 2 | 2.00 | 5.9 | 53.8 | 51 | 49 | 95 |
| C67 | Control | 2 | 2.08 | 9.1 | 66.9 | 51 | 48 | 97 |
| C68 | Control | 2 | 2.02 | 5.3 | 57.3 | 51 | 51 | 95 |
| C69 | Control | 2 | 2.05 | 6.2 | 82.8 | 51 | 48 | 97 |
| C70 | Control | 2 | 2.06 | 8.9 | 61.6 | 51 | 48 | 96 |
| C71 | Control | 2 | 2.08 | 5.9 | 91.6 | 51 | 47 | 97 |
| C72 | Control | 2 | 2.08 | 5.7 | 54.8 | 51 | 46 | 95 |
| C73 | Control | 2 | 2.08 | 7.6 | 63.2 | 51 | 46 | 90 |
| C74 | Control | 2 | 2.08 | 6.7 | 50.1 | 51 | 46 | 96 |
| C75 | Control | 2 | 2.09 | 6.8 | 43.9 | 51 | 47 | 95 |
| C76 | Control | 2 | 2.01 | 6.5 | 58.7 | 51 | 46 | 94 |
| C77 | Control | 2 | 2.07 | 5.4 | 52.4 | 51 | 47 | 93 |
| C78 | Control | 2 | 2.04 | 7.7 | 53.9 | 51 | 49 | 96 |
| C79 | Control | 2 | 1.87 | 5.2 | 55.6 | 51 | 49 | 94 |
| A40 | Aneurysm | 1 | 2.02 | 7.5 | 35.8 | 51 | 49 | 95 |
| A41 | Aneurysm | 2 | 2.03 | 5.7 | 27.1 | 51 | 49 | 94 |
| A42 | Aneurysm | 1 | 2.07 | 6.7 | 86.9 | 51 | 51 | 83 |
| A43 | Aneurysm | 1 | 2.03 | 7.2 | 39.8 | 51 | 50 | 96 |
| A44 | Aneurysm | 2 | 2.06 | 8.1 | 82.7 | 51 | 48 | 97 |
| A45 | Aneurysm | 2 | 2.05 | 5.1 | 48.4 | 51 | 48 | 96 |
| A46 | Aneurysm | 2 | 2.04 | 5.1 | 56.9 | 51 | 49 | 96 |
| A47 | Aneurysm | 2 | 2.06 | 5.1 | 53.6 | 51 | 48 | 96 |
| A48 | Aneurysm | 2 | 2.08 | 7.9 | 29.3 | 51 | 47 | 95 |
| A49 | Aneurysm | 2 | 2.06 | 7.9 | 53.2 | 51 | 47 | 96 |
| A50 | Aneurysm | 2 | 1.76 | 4.8 | 33.7 | 51 | 48 | 90 |
| A51 | Aneurysm | 2 | 2.03 | 4.8 | 66.1 | 51 | 47 | 94 |
| A52 | Aneurysm | 2 | 1.90 | 4.5 | 39.0 | 51 | 53 | 95 |
| A53 | Aneurysm | 2 | 2.07 | 8.2 | 82.3 | 51 | 48 | 96 |
| A54 | Aneurysm | 2 | 2.08 | 5.4 | 37.0 | 51 | 50 | 95 |
| A55 | Aneurysm | 2 | 2.10 | 7.7 | 104.8 | 51 | 49 | 96 |

\*Over the study period, samples were collected and sequenced in 2 main batches. The earlier batch is designated “1,” and the later batch is designated “2.” When creating the training and testing cohorts, data from each batch were randomly partitioned into each group. The quality of the RNA samples was assessed by the 260/280 ratio and the RIN. QC of sequencing showed that prior to alignment, all samples had an average of 53.84 M sequences. The sequencing experiments had an average of 48.4 M mapped reads with a 95.37% read mapping rate and detected an average of 11,591 transcripts (transcripts with TPM>1 after batch effect correction). (M.=million, Qual.=quality, Seqs.=sequences, TPM=transcripts per million, QC=quality control, RIN=RNA integrity number)