**Table S2**: Sequence counts per sample.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Animal** | **Tag** | **animal no** | **Genotype** | **Week** | **Sequences after trimming** |
| **1** | 1\_1\_HL1 | 1 | Obese | 5 | 695 |
| 1\_2\_HL1 | 1 | Obese | 7 | 585 |
| 1\_3\_HL2 | 1 | Obese | 10 | 294 |
| 1\_4\_HL3 | 1 | Obese | 14 | 535 |
| **2** | 2\_1\_HL1 | 2 | Hom lean | 5 | 545 |
| 2\_2\_HL1 | 2 | Hom lean | 7 | 463 |
| 2\_3\_HL2 | 2 | Hom lean | 10 | 411 |
| 2\_4\_HL3 | 2 | Hom lean | 14 | 1227 |
| **3** | 3\_1\_HL1 | 3 | Het lean | 5 | 867 |
| 3\_2\_HL1 | 3 | Het lean | 7 | 741 |
| 3\_3\_HL2 | 3 | Het lean | 10 | 282 |
| 3\_4\_HL3 | 3 | Het lean | 14 | 975 |
| **4** | 4\_1\_HL1 | 4 | Obese | 5 | 413 |
| 4\_2\_HL1 | 4 | Obese | 7 | 732 |
| 4\_3\_HL2 | 4 | Obese | 10 | 188 |
| 4\_4\_HL3 | 4 | Obese | 14 | 637 |
| **5** | 5\_1\_HL1 | 5 | Hom lean | 5 | 483 |
| 5\_2\_HL1 | 5 | Hom lean | 7 | 860 |
| 5\_4\_HL3 | 5 | Hom lean | 14 | 744 |
| **6** | 6\_1\_HL1 | 6 | Het lean | 5 | 609 |
| 6\_2\_HL2 | 6 | Het lean | 7 | 344 |
| 6\_3\_HL2 | 6 | Het lean | 10 | 246 |
| 6\_4\_HL3 | 6 | Het lean | 14 | 648 |
| **7** | 7\_1\_HL1 | 7 | Obese | 5 | 533 |
| 7\_2\_HL2 | 7 | Obese | 7 | 344 |
| 7\_3\_HL2 | 7 | Obese | 10 | 407 |
| 7\_4\_HL3 | 7 | Obese | 14 | 1005 |
| **8** | 8\_1\_HL1 | 8 | Hom lean | 5 | 417 |
| 8\_2\_HL2 | 8 | Hom lean | 7 | 237 |
| 8\_3\_HL2 | 8 | Hom lean | 10 | 227 |
| 8\_4\_HL3 | 8 | Hom lean | 14 | 840 |
| **9** | 9\_1\_HL1 | 9 | Het lean | 5 | 434 |
| 9\_2\_HL2 | 9 | Het lean | 7 | 284 |
| 9\_3\_HL2 | 9 | Het lean | 10 | 416 |
| 9\_4\_HL3 | 9 | Het lean | 14 | 705 |
| **10** | 10\_1\_HL1 | 10 | Obese | 5 | 479 |
| 10\_2\_HL2 | 10 | Obese | 7 | 366 |
| 10\_3\_HL2 | 10 | Obese | 10 | 314 |
| 10\_4\_HL3 | 10 | Obese | 14 | 583 |
| **11** | 11\_1\_HL1 | 11 | Hom lean | 5 | 425 |
| 11\_2\_HL2 | 11 | Hom lean | 7 | 412 |
| 11\_3\_HL2 | 11 | Hom lean | 10 | 415 |
| 11\_4\_HL3 | 11 | Hom lean | 14 | 404 |
| **12** | 12\_1\_HL1 | 12 | Het lean | 5 | 423 |
| 12\_2\_HL2 | 12 | Het lean | 7 | 119 |
| 12\_4\_HL3 | 12 | Het lean | 14 | 369 |
| **13** | 13\_1\_HL1 | 13 | Obese | 5 | 338 |
| 13\_2\_HL2 | 13 | Obese | 7 | 402 |
| 13\_3\_HL2 | 13 | Obese | 10 | 440 |
| 13\_4\_HL3 | 13 | Obese | 14 | 823 |
| **14** | 14\_1\_HL1 | 14 | Hom lean | 5 | 323 |
| 14\_2\_HL2 | 14 | Hom lean | 7 | 272 |
| 14\_3\_HL3 | 14 | Hom lean | 10 | 476 |
| 14\_4\_HL3 | 14 | Hom lean | 14 | 737 |
| **15** | 15\_1\_HL1 | 15 | Het lean | 5 | 414 |
| 15\_2\_HL2 | 15 | Het lean | 7 | 271 |
| 15\_3\_HL3 | 15 | Het lean | 10 | 885 |
| 15\_4\_HL3 | 15 | Het lean | 14 | 1042 |
| **16** | 16\_1\_HL1 | 16 | Obese | 5 | 292 |
| 16\_2\_HL2 | 16 | Obese | 7 | 249 |
| 16\_3\_HL3 | 16 | Obese | 10 | 1048 |
| 16\_4\_HL3 | 16 | Obese | 14 | 936 |
| **17** | 17\_1\_HL1 | 17 | Hom lean | 5 | 472 |
| 17\_4\_HL3 | 17 | Hom lean | 14 | 960 |
| **18** | 18\_1\_HL1 | 18 | Het lean | 5 | 289 |
| 18\_2\_HL2 | 18 | Het lean | 7 | 405 |
| 18\_3\_HL3 | 18 | Het lean | 10 | 1094 |
| 18\_4\_HL3 | 18 | Het lean | 14 | 569 |