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| **Table S5. Primer Sequences for Fitness Assay (5'→3')** |
| **Forward Adapter** | AATGATACGGCGACCACCGAGATCT |
| **Forward Sequencing Primer** | ACACTCTTTCCCTACACGACGCTCTTCCGATCT |
| **Reverse Adapter** | CAAGCAGAAGACGGCATACGAGAT |
| **Reverse Sequencing Primer**  | GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT |
|  |   |
| **Population** | **Gene Specific Primer** |
| **An-T 1** | Forward: ATCTGACCGCGCCAGAAG |
| Reverse: CCGAGAAATGCCGCACCT |
| **An-T 2** | Forward: GGATGGGCGTAGGTTCCG |
| Reverse: GGCGTCTCGTCATGGTCTG |
| **An-T 4** | Forward: AAGGTGACGCCGCAGCGGAT |
| Reverse: CTTCTGCTCGTAACGCGCCACACC |
| **An-T 5** | Forward: AGGTCTCGCCAAGGAAGTGCATTTCGG |
| Reverse: GCGCAGATGCCATAGAGATACATCCGGTG |
| **An-T 6** | Forward: TGGGTCCCGCACTGGTGGAA |
| Reverse: CCTCCTCGGCACTGTGCTCCA |
| **EC-T Group** | Forward: GCCACGCAGATCGAACTCGAAGAC |
| Reverse: TCGAGAATGAGCTCGCGAGCC |
| **ES-T Group** | Forward: AACCGCACGCTCCCGCAC |
| Reverse: TGTGGTGGTCGGAGGCCG |