

Table S2. All Statistics

| Sample | Con1 | Con2 | Con3 | AS1 | AS2 | AS3 | AS4 | AS5 |
|------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|
| before_filtering_total reads | 654571368 | 695470842 | 747925644 | 830823004 | 1094016514 | 700652942 | 662781036 | 765620324 |
| before_filtering_total bases | 98185705200 | 104320626300 | 112188846600 | 124623450600 | 164102477100 | 105097941300 | 99417155400 | 114843048600 |
| before_filtering_q20 bases | 89556313361 | 94004971032 | 99948678175 | 113022776408 | 147744661160 | 93426546514 | 91630522869 | 103808201919 |
| before_filtering_q30 bases | 82591594560 | 85727672212 | 90230470831 | 103173703393 | 134010854605 | 83230167253 | 84624577632 | 94763716176 |
| before_filtering_q20 rate | 0.912111526 | 1 | 0.890896744 | 0.906914195 | 0.900319506 | 0.888947446 | 0.921677174 | 1 |
| before_filtering_q30 rate | 0.841177383 | 1 | 0.804273095 | 0.82788354 | 0.816629078 | 0.791929568 | 0.85120699 | 1 |
| before_filtering_gc content | 0.39519 | 0 | 0.394229 | 0.397462 | 0.344719 | 0.400996 | 0.394995 | 0 |
| after_filtering_total reads | 624667778 | 639359900 | 712147982 | 786101054 | 960557758 | 667794094 | 629481392 | 708761324 |
| after_filtering_total bases | 91800239355 | 88684567416 | 103347353150 | 115244282664 | 137761917992 | 97790479939 | 92680416788 | 100830698272 |
| after_filtering_q20 bases | 84210672495 | 80878179374 | 92390566010 | 105328115819 | 125899756866 | 87274039515 | 85903654960 | 92084118113 |
| after_filtering_q30 bases | 77906853008 | 74147634758 | 83652827565 | 96516912562 | 115244888911 | 77891492928 | 79600403452 | 84542739534 |
| after_filtering_q20 rate | 0.917325195 | 1 | 0.89398096 | 0.913955238 | 0.913893757 | 0.892459466 | 0.926880326 | 1 |
| after_filtering_q30 rate | 0.848656317 | 1 | 0.809433672 | 0.837498489 | 0.836551135 | 0.796514067 | 0.858869718 | 1 |
| after_filtering_gc content | 0.398149 | 0 | 0.39596 | 0.401759 | 0.363334 | 0.401551 | 0.39852 | 0 |
| ReadsFilter% | 95.43157684 | 92 | 95.21641459 | 94.61715073 | 87.80102912 | 95.31025333 | 94.97576995 | 93 |
| BaseFilter% | 93.49654226 | 85 | 92.11909765 | 92.47399435 | 83.94871328 | 93.04699857 | 93.22376648 | 88 |
| low_quality_reads | 5524 | 630 | 826 | 23266 | 13362 | 7288 | 5824 | 4756 |
| too_many_N_reads | 18702 | 24534 | 37790 | 598308 | 54946 | 50748 | 14540 | 596286 |
| too_short_reads | 29879364 | 56085778 | 35739046 | 44100376 | 133390448 | 32800812 | 33279280 | 56257958 |
| too_long_reads | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |