**The statistical power of this experimental design, G3\_150 vs G3\_CK, G5\_150 vs G3\_150, G5\_150 vs G5\_CK, G5\_CK vs G3\_CK calculated in lncRNASeqPower is 0.0566, 0.0593, 0.0633, 0.0600 and mRNASeqPower is 0.1649, 0.1881, 0.1640, 0.1454, respectively.**

**Table A1-1** Calculation of the power analysis of lncRNA-seq

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Comparison | Sequence depth | Dispersions | Sample number | Effect | false\_positive\_rate | Sequence power |
| G3\_150vsG3\_CK | 253.02  | 1.84  | 2,2 | 2 | 0.05 | 0.0566  |
| G5\_150vsG3\_150 | 255.09  | 1.73  | 2,2 | 2 | 0.05 | 0.0593  |
| G5\_150vsG5\_CK | 215.39  | 1.60  | 2,2 | 2 | 0.05 | 0.0633  |
| G5\_CKvsG3\_CK | 213.33  | 1.71  | 2,2 | 2 | 0.05 | 0.0600  |

**Table A1-2** Calculation of the power analysis of mRNA-seq

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Comparison | Sequence depth | Dispersions | Sample number | Effect | false\_positive\_rate | Sequence power |
| G3\_150vsG3\_CK | 166.09  | 0.70  | 2,2 | 2 | 0.05 | 0.1649  |
| G5\_150vsG3\_150 | 166.90  | 0.64  | 2,2 | 2 | 0.05 | 0.1881  |
| G5\_150vsG5\_CK | 171.68  | 0.70  | 2,2 | 2 | 0.05 | 0.1640  |
| G5\_CKvsG3\_CK | 170.87  | 0.76  | 2,2 | 2 | 0.05 | 0.1454  |