Goal:

Sequencing was done over 4 runs. Below was done to check run to run variability of gene counts by plotting gene counts for 1 sample across 4 different runs.

> plot(run1,run3)

Machine generated alternative text:
Oe+00 
le+05 
2e+05 
runl 
3e+05 
4e+05 

> plot(run1,run4)

Machine generated alternative text:
Oe+00 
le+05 
2e+05 
runl 
3e+05 
4e+05 

> plot(run3,run4)

Machine generated alternative text:
Oe+OO 
run4 
2e+05 
4e +05 

> summary(lm(run1~run3))

Call:  
lm(formula = run1 ~ run3)

Residuals:  
 Min 1Q Median 3Q Max   
-27239.7 3.5 3.5 3.5 29812.1

Coefficients:  
 Estimate Std. Error t value Pr(>|t|)   
(Intercept) -3.5125830 0.4953565 -7.091 1.34e-12 \*\*\*  
run3 2.2737808 0.0005089 4467.749 < 2e-16 \*\*\*  
---  
Signif. codes:   
0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 152.3 on 95130 degrees of freedom  
Multiple R-squared: 0.9953,        Adjusted R-squared: 0.9953   
F-statistic: 1.996e+07 on 1 and 95130 DF, p-value: < 2.2e-16

> summary(lm(run1~run4))

Call:  
lm(formula = run1 ~ run4)

Residuals:  
 Min 1Q Median 3Q Max   
 -3786 1 1 1 9510

Coefficients:  
 Estimate Std. Error t value Pr(>|t|)  
(Intercept) -9.930e-01 1.493e-01 -6.651 2.92e-11  
run4 1.021e+00 6.876e-05 14854.833 < 2e-16  
   
(Intercept) \*\*\*  
run4 \*\*\*  
---  
Signif. codes:   
0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 45.91 on 95130 degrees of freedom  
Multiple R-squared: 0.9996,        Adjusted R-squared: 0.9996   
F-statistic: 2.207e+08 on 1 and 95130 DF, p-value: < 2.2e-16

> summary(lm(run3~run4))

Call:  
lm(formula = run3 ~ run4)

Residuals:  
 Min 1Q Median 3Q Max   
-8275.1 -1.4 -1.4 -1.4 10334.4

Coefficients:  
 Estimate Std. Error t value Pr(>|t|)   
(Intercept) 1.373e+00 1.664e-01 8.252 <2e-16 \*\*\*  
run4 4.476e-01 7.665e-05 5839.857 <2e-16 \*\*\*  
---  
Signif. codes:   
0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 51.18 on 95130 degrees of freedom  
Multiple R-squared: 0.9972,        Adjusted R-squared: 0.9972   
F-statistic: 3.41e+07 on 1 and 95130 DF, p-value: < 2.2e-16