

Anaquin TransQuin Report

Read Alignment for accepted_hits.bam (A1)

Summary for dataset: A1/TransAlign_summary.stats

Unmapped: 0 reads
Experiment: 6635268 (21.5363%) reads
Synthetic: 24174356 (78.4637%) reads

Reference: 1190 exons
Reference: 1028 introns
Reference: 149219 bases

Query: 59421555 exons
Query: 24855847 introns
Query: 163383 bases

Dilution: 0.784637

*** The following statistics are computed at the exon, intron and base level.

*** Exon level is defined by performance per exon. An alignment that
*** is not mapped entirely within an exon is considered as a FP. The
*** intron level is similar.

*** Base level is defined by performance per nucleotide. A partial
*** mapped read will have FP and TP.

----- Exon level -----

Sensitivity: 0.994958
Specificity: 0.973343
Detection: 0.0590086 (R2_33)

----- Intron level -----

Sensitivity: 0.991245
Specificity: 0.821653
Detection: 0.0590086 (R2_33)

----- Base level -----

Sensitivity: 0.692468
Specificity: 0.924613
Detection: 0.0590086 (R2_33)

----- Undetected -----

Exon: 0.005042
Intron: 0.008755
Gene: 0.052632

Read Alignment for accepted_hits.bam (A2)

Summary for dataset: A2/TransAlign_summary.stats

Unmapped: 0 reads
Experiment: 5742035 (20.4187%) reads
Synthetic: 22379420 (79.5813%) reads

Reference: 1190 exons
Reference: 1028 introns
Reference: 149219 bases

Query: 55184443 exons
Query: 24887760 introns
Query: 163986 bases

Dilution: 0.795813

*** The following statistics are computed at the exon, intron and base level.

*** Exon level is defined by performance per exon. An alignment that
*** is not mapped entirely within an exon is considered as a FP. The
*** intron level is similar.

*** Base level is defined by performance per nucleotide. A partial
*** mapped read will have FP and TP.

----- Exon level -----

Sensitivity: 0.996639
Specificity: 0.975178
Detection: 0.0590086 (R2_33)

----- Intron level -----

Sensitivity: 0.991245
Specificity: 0.763722
Detection: 0.0590086 (R2_33)

----- Base level -----

Sensitivity: 0.693059
Specificity: 0.921999
Detection: 0.0590086 (R2_33)

----- Undetected -----

Exon: 0.003361
Intron: 0.008755
Gene: 0.039474

Read Alignment for accepted_hits.bam (A3)

Summary for dataset: A3/TransAlign_summary.stats

Unmapped: 0 reads
Experiment: 5803436 (21.0203%) reads
Synthetic: 21805238 (78.9797%) reads

Reference: 1190 exons
Reference: 1028 introns
Reference: 149219 bases

Query: 53748651 exons
Query: 22830699 introns
Query: 166153 bases

Dilution: 0.789797

*** The following statistics are computed at the exon, intron and base level.

*** Exon level is defined by performance per exon. An alignment that
*** is not mapped entirely within an exon is considered as a FP. The
*** intron level is similar.

*** Base level is defined by performance per nucleotide. A partial
*** mapped read will have FP and TP.

----- Exon level -----

Sensitivity: 0.996639
Specificity: 0.974466
Detection: 0.0590086 (R2_33)

----- Intron level -----

Sensitivity: 0.992218
Specificity: 0.811167
Detection: 0.0590086 (R2_33)

----- Base level -----

Sensitivity: 0.695741
Specificity: 0.913495
Detection: 0.0590086 (R2_33)

----- Undetected -----

Exon: 0.003361
Intron: 0.007782
Gene: 0.039474

Read Alignment for accepted_hits.bam (B1)

Summary for dataset: B1/TransAlign_summary.stats

Unmapped: 0 reads
Experiment: 3564555 (14.1897%) reads
Synthetic: 21556180 (85.8103%) reads

Reference: 1190 exons
Reference: 1028 introns
Reference: 149219 bases

Query: 57069428 exons
Query: 26914113 introns
Query: 158601 bases

Dilution: 0.858103

*** The following statistics are computed at the exon, intron and base level.

*** Exon level is defined by performance per exon. An alignment that
*** is not mapped entirely within an exon is considered as a FP. The
*** intron level is similar.

*** Base level is defined by performance per nucleotide. A partial
*** mapped read will have FP and TP.

----- Exon level -----

Sensitivity: 0.992437
Specificity: 0.981463
Detection: 0.0590086 (R2_33)

----- Intron level -----

Sensitivity: 0.986381
Specificity: 0.880564
Detection: 1.88828 (R1_72)

----- Base level -----

Sensitivity: 0.685079
Specificity: 0.942327
Detection: 0.0590086 (R2_33)

----- Undetected -----

Exon: 0.007563
Intron: 0.013619
Gene: 0.065789

Read Alignment for accepted_hits.bam (B2)

Summary for dataset: B2/TransAlign_summary.stats

Unmapped: 0 reads
Experiment: 3673262 (14.5259%) reads
Synthetic: 21614486 (85.4741%) reads

Reference: 1190 exons
Reference: 1028 introns
Reference: 149219 bases

Query: 57264502 exons
Query: 28885125 introns
Query: 160649 bases

Dilution: 0.854741

*** The following statistics are computed at the exon, intron and base level.

*** Exon level is defined by performance per exon. An alignment that
*** is not mapped entirely within an exon is considered as a FP. The
*** intron level is similar.

*** Base level is defined by performance per nucleotide. A partial
*** mapped read will have FP and TP.

----- Exon level -----

Sensitivity: 0.994118
Specificity: 0.981653
Detection: 0.0590086 (R2_33)

----- Intron level -----

Sensitivity: 0.984436
Specificity: 0.818059
Detection: 0.0590086 (R2_33)

----- Base level -----

Sensitivity: 0.687879
Specificity: 0.934117
Detection: 0.0590086 (R2_33)

----- Undetected -----

Exon: 0.005882
Intron: 0.015564
Gene: 0.052632

Read Alignment for accepted_hits.bam (B3)

Summary for dataset: B3/TransAlign_summary.stats

Unmapped: 0 reads
Experiment: 4705904 (15.6992%) reads
Synthetic: 25269549 (84.3008%) reads

Reference: 1190 exons
Reference: 1028 introns
Reference: 149219 bases

Query: 67685272 exons
Query: 37139930 introns
Query: 162712 bases

Dilution: 0.843008

*** The following statistics are computed at the exon, intron and base level.

*** Exon level is defined by performance per exon. An alignment that
*** is not mapped entirely within an exon is considered as a FP. The
*** intron level is similar.

*** Base level is defined by performance per nucleotide. A partial
*** mapped read will have FP and TP.

----- Exon level -----

Sensitivity: 0.994958
Specificity: 0.980831
Detection: 0.0590086 (R2_33)

----- Intron level -----

Sensitivity: 0.986381
Specificity: 0.759454
Detection: 0.0590086 (R2_33)

----- Base level -----

Sensitivity: 0.688292
Specificity: 0.922827
Detection: 0.0590086 (R2_33)

----- Undetected -----

Exon: 0.005042
Intron: 0.013619
Gene: 0.052632

Summary for dataset: /Users/tedwong/Desktop/K_562/Cuffdiffs/gene_exp.diff

Experiment: 9682 genes
Synthetic: 67 genes

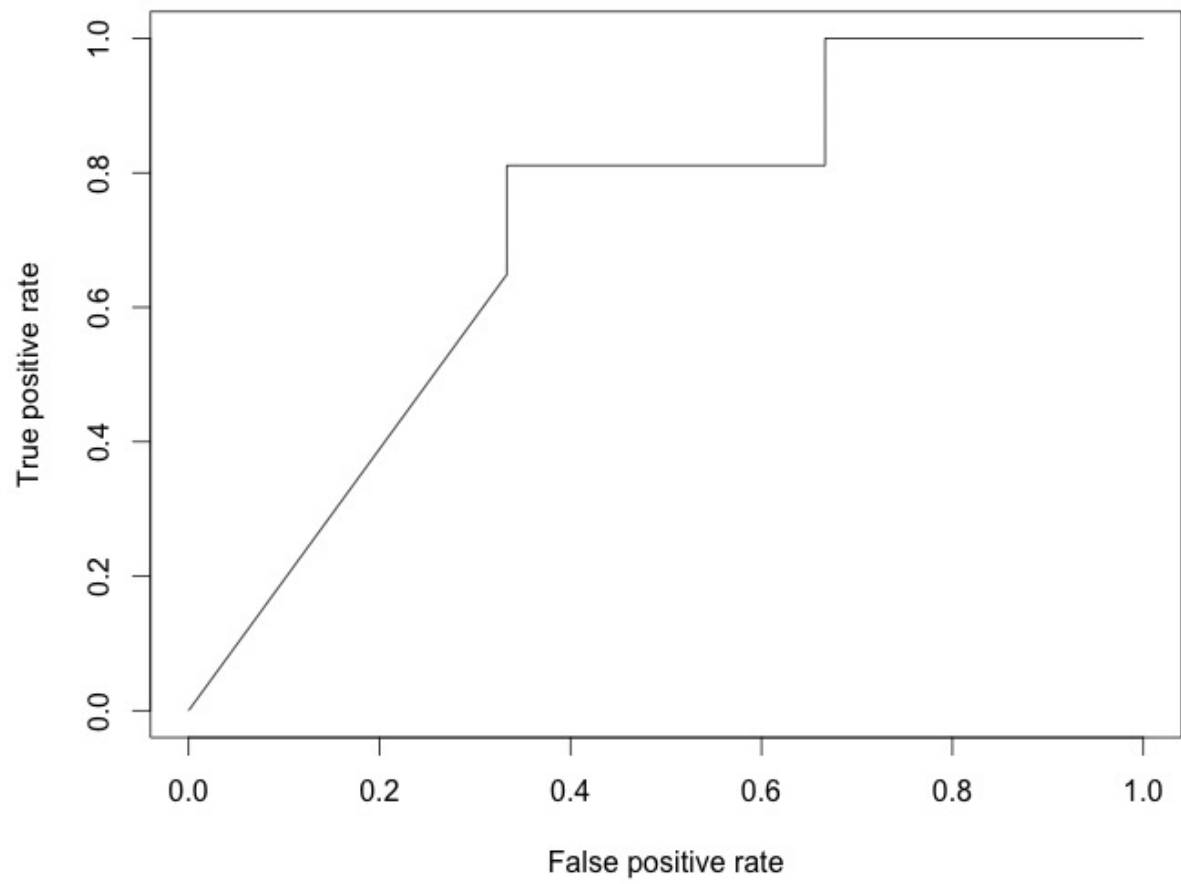
Reference: 76 genes
Detected: 65 genes

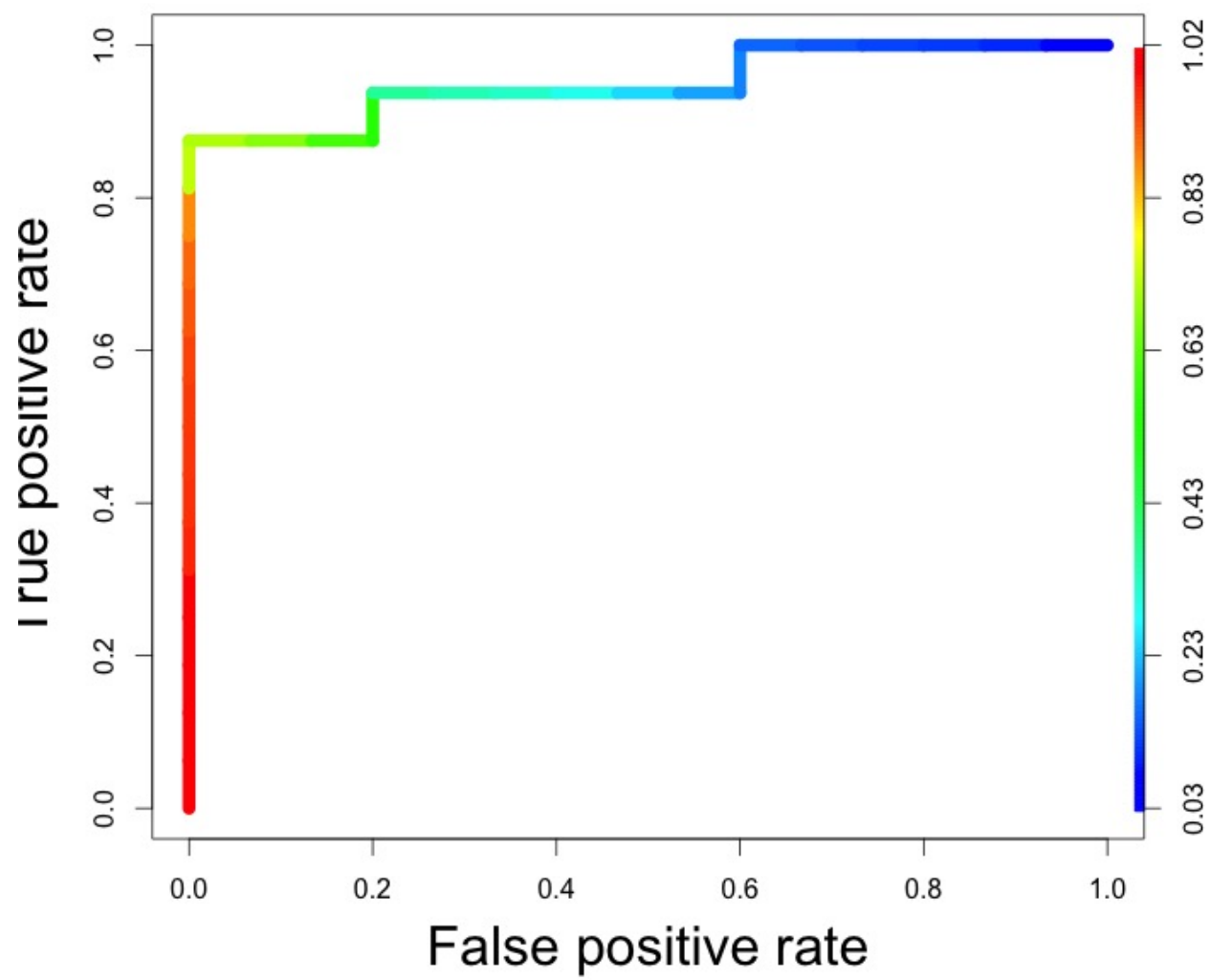
*** Statistics for linear regression

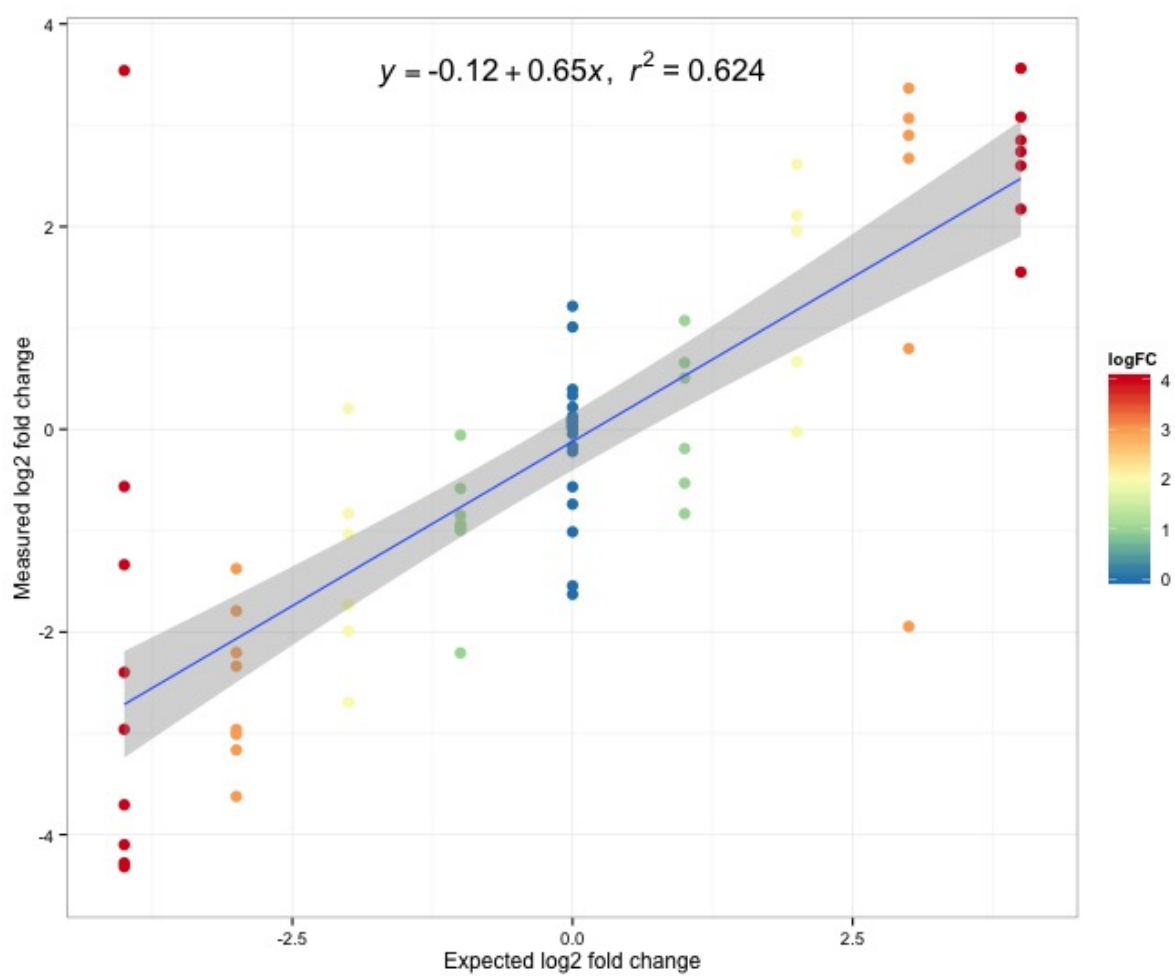
Correlation: 0.56272
Slope: 0.411349
R2: 0.316654
F-statistic: 29.1934
P-value: 1.06667e-06
SSM: 244.21, DF: 1
SSE: 527.011, DF: 63
SST: 771.221, DF: 64

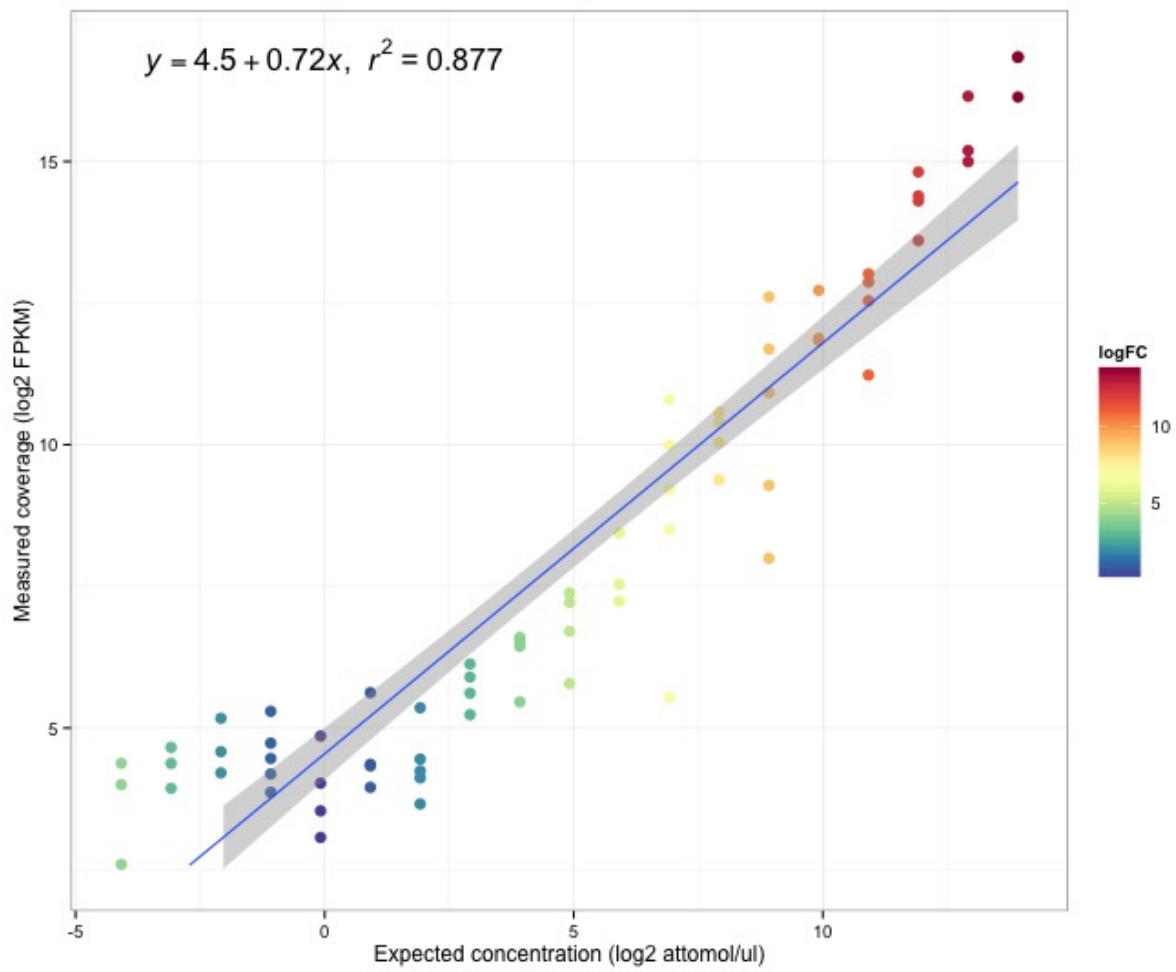
*** Statistics for linear regression (log2 scale)

Correlation: 0.769414
Slope: 0.545994
R2: 0.591998
F-statistic: 91.4108
P-value: 7.00551e-14
SSM: 116.382, DF: 1
SSE: 80.21, DF: 63
SST: 196.592, DF: 64









Summary for dataset: /Users/tedwong/Desktop/K_562/Cufflinks/A1/genes.fpk_tracking

Experiment: 60570 gene

Synthetic: 75 gene

Reference: 76 gene

Detected: 3.41719 gene

*** Detection Limits

Break: 7.5531 (-)

Left: $3.41719 + 0.862027x$ ($R^2 = 0.920302$)

Right: $5.17772 + 0.558818x$ ($R^2 = 0.795326$)

*** Statistics for linear regression

Correlation: 0.962825

Slope: 6.46625

R2: 0.927032

F-statistic: 902.032

P-value: 0

SSM: $3.50824e+10$, DF: 1

SSE: $2.76138e+09$, DF: 71

SST: $3.78438e+10$, DF: 72

*** Statistics for linear regression (log2 scale)

Correlation: 0.936306

Slope: 0.724913

R2: 0.876669

F-statistic: 504.686

P-value: 0

SSM: 1040.46, DF: 1

SSE: 146.373, DF: 71

SST: 1186.83, DF: 72