Anaquin TransQuin Report

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Header 1	
ssdasd	

Header 2

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
          37139930 introns
  Query:
  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

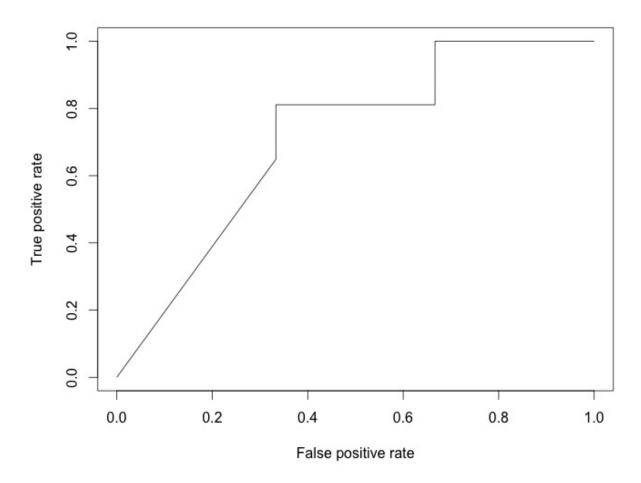
Reference: 76 genes Detected: 65 genes

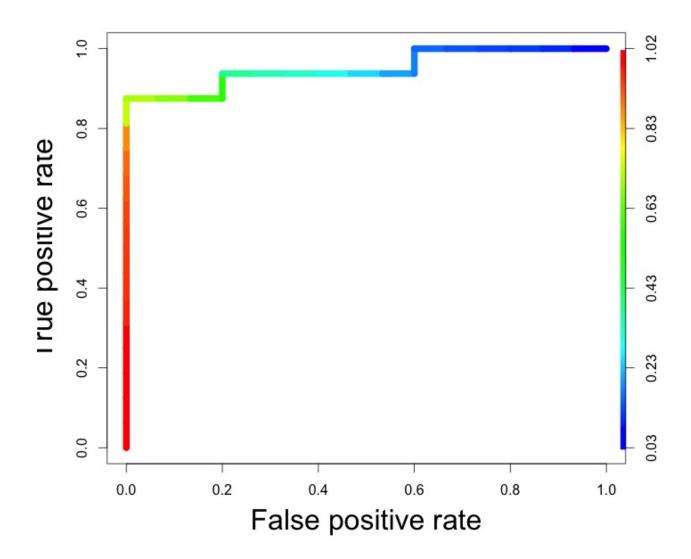
*** Statistics for linear regression

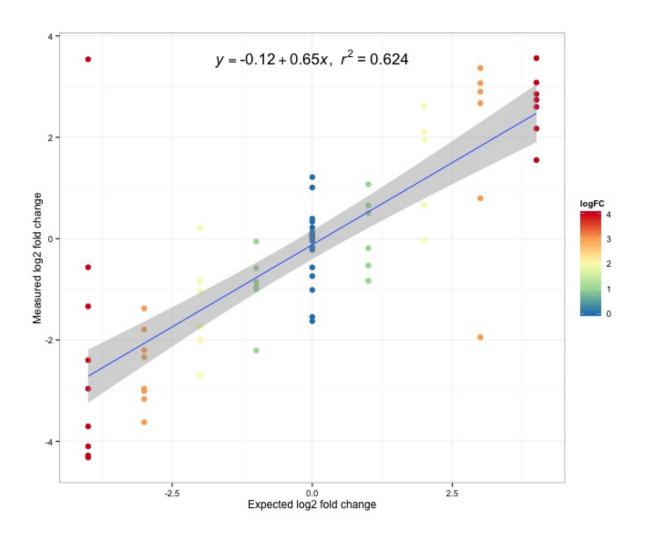
Correlation: 0.56272
Slope: 0.411349
R2: 0.316654
F-statistic: 29.1934
P-value: 1.06667e-06
SSM: 244.21, DF: 1
SSE: 527.011, DF: 63
SST: 771.221, DF: 64

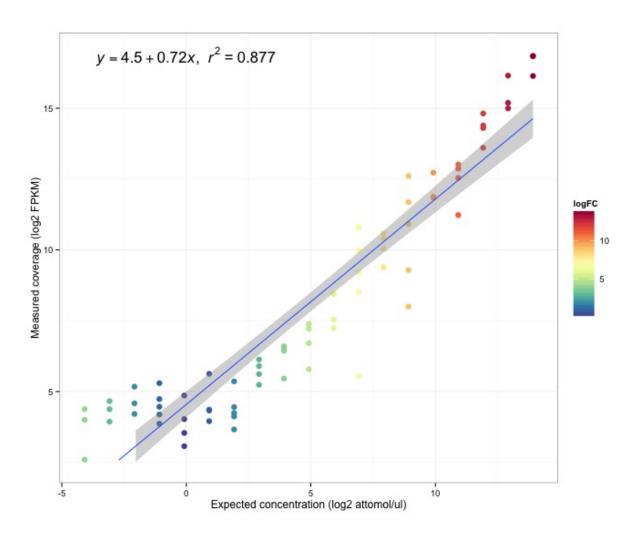
*** Statistics for linear regression (log2 scale)

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.fpkm_tracking

Experiment: 60570 gene Synthetic: 75 gene Reference: 76 gene Detected: 4.39067 gene *** Detection Limits Break: 3.77655 (R1_62) Left: 4.39067 + 0.0805742x (R2 = 0.0567335) Right: 2.0794 + 1.00352x (R2 = 0.922502)*** Statistics for linear regression Correlation: 0.962825 Slope: 6.46625 R2: 0.927032 F-statistic: 902.032 P-value: 0 3.50824e+10, DF: 1 2.76138e+09, DF: 71 SSM: SSE: 3.78438e+10, DF: 72 SST: *** *** Statistics for linear regression (log2 scale) Correlation: 0.936306 Slope: 0.724913 R2: 0.876669 F-statistic: 504.686 P-value: 0 1040.46, DF: 1 146.373, DF: 71 SSM: SSE:

1186.83, DF: 72

SST: