

Anaquin: TransQuin Report

Contents

TransQuin Alignment	3
Alignment statistics for: A1	3
Alignment statistics for: A2	6
Alignment statistics for: A3	9
Alignment statistics for: B1	12
Alignment statistics for: B2	15
Alignment statistics for: B3	18
 TransQuin Assembly	 21
Assembly statistics for: A1	21
Assembly statistics for: A2	24
Assembly statistics for: A3	27
Assembly statistics for: B1	30
Assembly statistics for: B2	33
Assembly statistics for: B3	36
 TransQuin Gene Expression	 39
Gene expression summary	39
Gene expression statistics for: A1	41
Gene expression scatter plot for: A1	43
Gene expression statistics for: A2	44
Gene expression scatter plot for: A2	46
Gene expression statistics for: A3	47
Gene expression scatter plot for: A3	49
Gene expression statistics for: B1	50
Gene expression scatter plot for: B1	52
Gene expression statistics for: B2	53
Gene expression scatter plot for: B2	55
Gene expression statistics for: B3	56
Gene expression scatter plot for: B3	58

TransQuin Isoform Expression	59
Isoform expression summary	59
Minor/Major plot	61
Isoform expression statistics for: A1	62
Isoform expression scatter plot for: A1	64
Isoform expression statistics for: A2	65
Isoform expression scatter plot for: A2	67
Isoform expression statistics for: A3	68
Isoform expression scatter plot for: A3	70
Isoform expression statistics for: B1	71
Isoform expression scatter plot for: B1	73
Isoform expression statistics for: B2	74
Isoform expression scatter plot for: B2	76
Isoform expression statistics for: B3	77
Isoform expression scatter plot for: B3	79
TransQuin Differential	80
Differential summary statistics	80
ROC plot	81
MA plot	82
LODR plot	83
Appendix: TransQuin Alignment	84
Sequin statistics for: A1	84
Sequin statistics for: A2	86
Sequin statistics for: A3	88
Sequin statistics for: B1	90
Sequin statistics for: B2	92
Sequin statistics for: B3	94

TransQuin Alignment

Alignment statistics for: A1

Summary for input: K_RMXA1v2.accepted_hits.bam

*** Proportion of reads mapped to the synthetic and experiment

Unmapped: 0 reads
Synthetic: 36484961 (76.1291%) reads
Experiment: 11440146 (23.8709%) reads
Dilution: 0.761291

*** Reference annotation (Synthetic)

File: ATR001.v032.gtf

Synthetic: 1190 exons
Synthetic: 1028 introns
Synthetic: 149219 bases

*** Reference annotation (Experiment)

File: GeneCodeChr1.gtf

Experiment: 106882 exons
Experiment: 89631 introns
Experiment: 12073481 bases

*** Input file

Synthetic: 85464855 exons
Synthetic: 32195352 introns
Synthetic: 161775 bases

Experiment: 4116941 exons
Experiment: 1488979 introns
Experiment: 15859943 bases

*** 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.

 *** Please refer to the paper "Evaluation of gene structure prediction programs" for more details

 *** Statistics for synthetic chromosome ***

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

Sensitivity: 0.997479
 Specificity: 0.976043
 Detection Limit: 0.0590086 (attomol/ul) (R2_33)

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

Sensitivity: 0.993191
 Specificity: 0.840372
 Detection Limit: 0.0590086 (attomol/ul) (R2_33)

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

Sensitivity: 0.691812
 Specificity: 0.932919
 Detection Limit: 0.0590086 (attomol/ul) (R2_33)

----- Undetected -----

Exon: 0.002521
 Intron: 0.006809
 Gene: 0.026316

 *** Statistics for experiment ***

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

Sensitivity: 0.571677
 Specificity: 0.915756

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

Sensitivity: 0.493657
 Specificity: 0.755703

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

Sensitivity: 0.169268
Specificity: 0.288446

----- Undetected -----

Exon: 0.428323
Intron: 0.506343
Gene: 0.832408

Alignment statistics for: A2

Summary for input: K_RMXA2v2.accepted_hits.bam

*** Proportion of reads mapped to the synthetic and experiment

Unmapped: 0 reads
Synthetic: 35066089 (76.6192%) reads
Experiment: 10700630 (23.3808%) reads
Dilution: 0.766192

*** Reference annotation (Synthetic)

File: ATR001.v032.gtf

Synthetic: 1190 exons
Synthetic: 1028 introns
Synthetic: 149219 bases

*** Reference annotation (Experiment)

File: GeneCodeChr1.gtf

Experiment: 106882 exons
Experiment: 89631 introns
Experiment: 12073481 bases

*** Input file

Synthetic: 82814262 exons
Synthetic: 34992686 introns
Synthetic: 162619 bases

Experiment: 3629253 exons
Experiment: 1276494 introns
Experiment: 15041782 bases

*** 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.

*** Please refer to the paper "Evaluation of gene structure prediction programs" for more details

*** Statistics for synthetic chromosome ***

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

Sensitivity: 0.997479
Specificity: 0.974098
Detection Limit: 0.0590086 (attomol/ul) (R2_33)

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

Sensitivity: 0.986381
Specificity: 0.745193
Detection Limit: 0.0590086 (attomol/ul) (R2_33)

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

Sensitivity: 0.691909
Specificity: 0.928206
Detection Limit: 0.0590086 (attomol/ul) (R2_33)

----- Undetected -----

Exon: 0.002521
Intron: 0.013619
Gene: 0.026316

*** Statistics for experiment ***

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

Sensitivity: 0.561535
Specificity: 0.921506

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

Sensitivity: 0.479243
Specificity: 0.780912

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

Sensitivity: 0.162014
Specificity: 0.291102

----- Undetected -----

Exon: 0.438465
Intron: 0.520757
Gene: 0.837403

Alignment statistics for: A3

Summary for input: K_RMXA3v2.accepted_hits.bam

*** Proportion of reads mapped to the synthetic and experiment

Unmapped: 0 reads
Synthetic: 33232155 (77.2589%) reads
Experiment: 9781841 (22.7411%) reads
Dilution: 0.772589

*** Reference annotation (Synthetic)

File: ATR001.v032.gtf

Synthetic: 1190 exons
Synthetic: 1028 introns
Synthetic: 149219 bases

*** Reference annotation (Experiment)

File: GeneCodeChr1.gtf

Experiment: 106882 exons
Experiment: 89631 introns
Experiment: 12073481 bases

*** Input file

Synthetic: 78415783 exons
Synthetic: 29409848 introns
Synthetic: 166617 bases

Experiment: 3801952 exons
Experiment: 1400763 introns
Experiment: 15059951 bases

*** 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.

 *** Please refer to the paper "Evaluation of gene structure prediction programs" for more details

 *** Statistics for synthetic chromosome ***

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

Sensitivity: 0.997479
 Specificity: 0.971556
 Detection Limit: 0.0590086 (attomol/ul) (R2_33)

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

Sensitivity: 0.992218
 Specificity: 0.840566
 Detection Limit: 0.0590086 (attomol/ul) (R2_33)

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

Sensitivity: 0.696877
 Specificity: 0.912440
 Detection Limit: 0.0590086 (attomol/ul) (R2_33)

----- Undetected -----

Exon: 0.002521
 Intron: 0.007782
 Gene: 0.026316

 *** Statistics for experiment ***

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

Sensitivity: 0.550196
 Specificity: 0.918023

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

Sensitivity: 0.476598
 Specificity: 0.771829

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

Sensitivity: 0.160739
 Specificity: 0.288462

----- Undetected -----

Exon: 0.449804
Intron: 0.523402
Gene: 0.838698

Alignment statistics for: B1

Summary for input: G_RMXB1v2.accepted_hits.bam

*** Proportion of reads mapped to the synthetic and experiment

Unmapped: 0 reads
Synthetic: 33694649 (84.2494%) reads
Experiment: 6299276 (15.7506%) reads
Dilution: 0.842494

*** Reference annotation (Synthetic)

File: ATR001.v032.gtf

Synthetic: 1190 exons
Synthetic: 1028 introns
Synthetic: 149219 bases

*** Reference annotation (Experiment)

File: GeneCodeChr1.gtf

Experiment: 106882 exons
Experiment: 89631 introns
Experiment: 12073481 bases

*** Input file

Synthetic: 86364151 exons
Synthetic: 42105718 introns
Synthetic: 158128 bases

Experiment: 1697232 exons
Experiment: 601494 introns
Experiment: 11657812 bases

*** 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.

*** Please refer to the paper "Evaluation of gene structure prediction programs" for more details

*** Statistics for synthetic chromosome ***

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

Sensitivity: 0.993277
Specificity: 0.977562
Detection Limit: 0.0590086 (attomol/ul) (R2_33)

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

Sensitivity: 0.984436
Specificity: 0.793287
Detection Limit: 1.88828 (attomol/ul) (R1_72)

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

Sensitivity: 0.683749
Specificity: 0.943312
Detection Limit: 0.0590086 (attomol/ul) (R2_33)

----- Undetected -----

Exon: 0.006723
Intron: 0.015564
Gene: 0.052632

*** Statistics for experiment ***

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

Sensitivity: 0.497268
Specificity: 0.905373

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

Sensitivity: 0.399070
Specificity: 0.752942

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

Sensitivity: 0.127187
Specificity: 0.294860

----- Undetected -----

Exon: 0.502732
Intron: 0.600930
Gene: 0.880503

Alignment statistics for: B2

Summary for input: G_RMXB2v2.accepted_hits.bam

*** Proportion of reads mapped to the synthetic and experiment

Unmapped: 0 reads
Synthetic: 33740540 (83.9848%) reads
Experiment: 6434036 (16.0152%) reads
Dilution: 0.839848

*** Reference annotation (Synthetic)

File: ATR001.v032.gtf

Synthetic: 1190 exons
Synthetic: 1028 introns
Synthetic: 149219 bases

*** Reference annotation (Experiment)

File: GeneCodeChr1.gtf

Experiment: 106882 exons
Experiment: 89631 introns
Experiment: 12073481 bases

*** Input file

Synthetic: 85746594 exons
Synthetic: 43266445 introns
Synthetic: 157833 bases

Experiment: 1718118 exons
Experiment: 577019 introns
Experiment: 11508342 bases

*** 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.

*** Please refer to the paper "Evaluation of gene structure prediction programs" for more details

*** Statistics for synthetic chromosome ***

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

Sensitivity: 0.994118
Specificity: 0.976567
Detection Limit: 0.0590086 (attomol/ul) (R2_33)

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

Sensitivity: 0.986381
Specificity: 0.756517
Detection Limit: 1.88828 (attomol/ul) (R1_72)

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

Sensitivity: 0.685982
Specificity: 0.948160
Detection Limit: 0.0590086 (attomol/ul) (R2_33)

----- Undetected -----

Exon: 0.005882
Intron: 0.013619
Gene: 0.039474

*** Statistics for experiment ***

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

Sensitivity: 0.503237
Specificity: 0.907890

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

Sensitivity: 0.398110
Specificity: 0.785050

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

Sensitivity: 0.126903
Specificity: 0.298024

----- Undetected -----

Exon: 0.496763
Intron: 0.601890
Gene: 0.869774

Alignment statistics for: B3

Summary for input: G_RMXB3v2.accepted_hits.bam

*** Proportion of reads mapped to the synthetic and experiment

Unmapped: 0 reads
Synthetic: 38361013 (82.8492%) reads
Experiment: 7941201 (17.1508%) reads
Dilution: 0.828492

*** Reference annotation (Synthetic)

File: ATR001.v032.gtf

Synthetic: 1190 exons
Synthetic: 1028 introns
Synthetic: 149219 bases

*** Reference annotation (Experiment)

File: GeneCodeChr1.gtf

Experiment: 106882 exons
Experiment: 89631 introns
Experiment: 12073481 bases

*** Input file

Synthetic: 98520610 exons
Synthetic: 50973179 introns
Synthetic: 157888 bases

Experiment: 2327740 exons
Experiment: 812978 introns
Experiment: 13191197 bases

*** 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.

*** Please refer to the paper "Evaluation of gene structure prediction programs" for more details

*** Statistics for synthetic chromosome ***

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

Sensitivity: 0.994958
Specificity: 0.978198
Detection Limit: 0.0590086 (attomol/ul) (R2_33)

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

Sensitivity: 0.983463
Specificity: 0.751422
Detection Limit: 1.88828 (attomol/ul) (R1_72)

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

Sensitivity: 0.684753
Specificity: 0.946133
Detection Limit: 0.0590086 (attomol/ul) (R2_33)

----- Undetected -----

Exon: 0.005042
Intron: 0.016537
Gene: 0.052632

*** Statistics for experiment ***

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

Sensitivity: 0.525654
Specificity: 0.906386

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

Sensitivity: 0.438052
Specificity: 0.787404

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

Sensitivity: 0.141763
Specificity: 0.290448

----- Undetected -----

Exon: 0.474346
Intron: 0.561948
Gene: 0.867555

TransQuin Assembly

Assembly statistics for: A1

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/A1/NotGuided/transcripts.gtf

*** Proportion of features mapped to the synthetic and experiment

Synthetic: 156131 features

Experiment: 1955 features

*** Reference annotation (Synthetic)

File: /Users/tedwong/Desktop/K_562/ATR001.v032.gtf

Synthetic: 1190 exons

Synthetic: 1028 introns

*** Reference annotation (Experiment)

File: /Users/tedwong/Desktop/K_562/GeneCodeChr1.gtf

Experiment: 106882 exons

Experiment: 89631 introns

*** Statistics for synthetic chromosome ***

*** The following statistics are computed for exact and fuzzy.

*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)

Specificity: 1.00 (1.00)

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

Sensitivity: 0.996032 (0.996032)

Specificity: 0.996032 (0.996032)

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

Sensitivity: 1.00
Specificity: 1.00

----- Intron Chain level -----

Sensitivity: 1.00 (1.00)
Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 1.00 (0.993939)
Specificity: 1.00 (0.993939)

Missing exons: 0/872 (0.000000)
Missing introns: 3/756 (0.003968)

Novel exons: 0/872 (0.000000)
Novel introns: 0/756 (0.000000)

*** Statistics for experiment ***

*** The following statistics are computed for exact and fuzzy.
*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)
Specificity: 1.00 (1.00)

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

Sensitivity: 0.995505 (1.00)
Specificity: 0.995505 (1.00)

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

Sensitivity: 0.996985
Specificity: 0.999936

----- Intron Chain level -----

Sensitivity: 0.968803 (1.00)
Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 0.971469 (0.891616)

Specificity: 0.996215 (0.914329)

Missing exons: 0/51521 (0.000000)

Missing introns: 140/32924 (0.004252)

Novel exons: 0/50866 (0.000000)

Novel introns: 0/32924 (0.000000)

Assembly statistics for: A2

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/A2/NotGuided/transcripts.gtf

*** Proportion of features mapped to the synthetic and experiment

Synthetic: 144223 features

Experiment: 1928 features

*** Reference annotation (Synthetic)

File: /Users/tedwong/Desktop/K_562/ATR001.v032.gtf

Synthetic: 1190 exons

Synthetic: 1028 introns

*** Reference annotation (Experiment)

File: /Users/tedwong/Desktop/K_562/GeneCodeChr1.gtf

Experiment: 106882 exons

Experiment: 89631 introns

*** Statistics for synthetic chromosome ***

*** The following statistics are computed for exact and fuzzy.

*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)

Specificity: 1.00 (1.00)

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

Sensitivity: 0.996032 (0.996032)

Specificity: 0.996032 (0.996032)

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

Sensitivity: 1.00

Specificity: 1.00

----- Intron Chain level -----

Sensitivity: 1.00 (1.00)

Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 1.00 (0.993939)

Specificity: 1.00 (0.993939)

Missing exons: 0/872 (0.000000)

Missing introns: 3/756 (0.003968)

Novel exons: 0/872 (0.000000)

Novel introns: 0/756 (0.000000)

*** Statistics for experiment ***

*** The following statistics are computed for exact and fuzzy.
*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)

Specificity: 1.00 (1.00)

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

Sensitivity: 0.995505 (1.00)

Specificity: 0.995505 (1.00)

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

Sensitivity: 0.996985

Specificity: 0.999936

----- Intron Chain level -----

Sensitivity: 0.968803 (1.00)

Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 0.971469 (0.891616)

Specificity: 0.996215 (0.914329)

Missing exons: 0/51521 (0.000000)
Missing introns: 140/32924 (0.004252)

Novel exons: 0/50866 (0.000000)
Novel introns: 0/32924 (0.000000)

Assembly statistics for: A3

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/A3/NotGuided/transcripts.gtf

*** Proportion of features mapped to the synthetic and experiment

Synthetic: 147191 features

Experiment: 2037 features

*** Reference annotation (Synthetic)

File: /Users/tedwong/Desktop/K_562/ATR001.v032.gtf

Synthetic: 1190 exons

Synthetic: 1028 introns

*** Reference annotation (Experiment)

File: /Users/tedwong/Desktop/K_562/GeneCodeChr1.gtf

Experiment: 106882 exons

Experiment: 89631 introns

*** Statistics for synthetic chromosome ***

*** The following statistics are computed for exact and fuzzy.

*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)

Specificity: 1.00 (1.00)

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

Sensitivity: 0.996032 (0.996032)

Specificity: 0.996032 (0.996032)

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

Sensitivity: 1.00

Specificity: 1.00

----- Intron Chain level -----

Sensitivity: 1.00 (1.00)
Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 1.00 (0.993939)
Specificity: 1.00 (0.993939)

Missing exons: 0/872 (0.000000)
Missing introns: 3/756 (0.003968)

Novel exons: 0/872 (0.000000)
Novel introns: 0/756 (0.000000)

*** Statistics for experiment ***

*** The following statistics are computed for exact and fuzzy.
*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)
Specificity: 1.00 (1.00)

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

Sensitivity: 0.995505 (1.00)
Specificity: 0.995505 (1.00)

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

Sensitivity: 0.996985
Specificity: 0.999936

----- Intron Chain level -----

Sensitivity: 0.968803 (1.00)
Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 0.971469 (0.891616)
Specificity: 0.996215 (0.914329)

Missing exons: 0/51521 (0.000000)
Missing introns: 140/32924 (0.004252)

Novel exons: 0/50866 (0.000000)
Novel introns: 0/32924 (0.000000)

Assembly statistics for: B1

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/B1/NotGuided/transcripts.gtf

*** Proportion of features mapped to the synthetic and experiment

Synthetic: 108316 features

Experiment: 1691 features

*** Reference annotation (Synthetic)

File: /Users/tedwong/Desktop/K_562/ATR001.v032.gtf

Synthetic: 1190 exons

Synthetic: 1028 introns

*** Reference annotation (Experiment)

File: /Users/tedwong/Desktop/K_562/GeneCodeChr1.gtf

Experiment: 106882 exons

Experiment: 89631 introns

*** Statistics for synthetic chromosome ***

*** The following statistics are computed for exact and fuzzy.

*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)

Specificity: 1.00 (1.00)

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

Sensitivity: 0.996032 (0.996032)

Specificity: 0.996032 (0.996032)

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

Sensitivity: 1.00

Specificity: 1.00

----- Intron Chain level -----

Sensitivity: 1.00 (1.00)
Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 1.00 (0.993939)
Specificity: 1.00 (0.993939)

Missing exons: 0/872 (0.000000)
Missing introns: 3/756 (0.003968)

Novel exons: 0/872 (0.000000)
Novel introns: 0/756 (0.000000)

*** Statistics for experiment ***

*** The following statistics are computed for exact and fuzzy.
*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)
Specificity: 1.00 (1.00)

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

Sensitivity: 0.995505 (1.00)
Specificity: 0.995505 (1.00)

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

Sensitivity: 0.996985
Specificity: 0.999936

----- Intron Chain level -----

Sensitivity: 0.968803 (1.00)
Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 0.971469 (0.891616)
Specificity: 0.996215 (0.914329)

Missing exons: 0/51521 (0.000000)
Missing introns: 140/32924 (0.004252)

Novel exons: 0/50866 (0.000000)
Novel introns: 0/32924 (0.000000)

Assembly statistics for: B2

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/B2/NotGuided/transcripts.gtf

*** Proportion of features mapped to the synthetic and experiment

Synthetic: 107544 features

Experiment: 1616 features

*** Reference annotation (Synthetic)

File: /Users/tedwong/Desktop/K_562/ATR001.v032.gtf

Synthetic: 1190 exons

Synthetic: 1028 introns

*** Reference annotation (Experiment)

File: /Users/tedwong/Desktop/K_562/GeneCodeChr1.gtf

Experiment: 106882 exons

Experiment: 89631 introns

*** Statistics for synthetic chromosome ***

*** The following statistics are computed for exact and fuzzy.

*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)

Specificity: 1.00 (1.00)

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

Sensitivity: 0.996032 (0.996032)

Specificity: 0.996032 (0.996032)

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

Sensitivity: 1.00

Specificity: 1.00

----- Intron Chain level -----

Sensitivity: 1.00 (1.00)
Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 1.00 (0.993939)
Specificity: 1.00 (0.993939)

Missing exons: 0/872 (0.000000)
Missing introns: 3/756 (0.003968)

Novel exons: 0/872 (0.000000)
Novel introns: 0/756 (0.000000)

*** Statistics for experiment ***

*** The following statistics are computed for exact and fuzzy.
*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)
Specificity: 1.00 (1.00)

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

Sensitivity: 0.995505 (1.00)
Specificity: 0.995505 (1.00)

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

Sensitivity: 0.996985
Specificity: 0.999936

----- Intron Chain level -----

Sensitivity: 0.968803 (1.00)
Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 0.971469 (0.891616)
Specificity: 0.996215 (0.914329)

Missing exons: 0/51521 (0.000000)
Missing introns: 140/32924 (0.004252)

Novel exons: 0/50866 (0.000000)
Novel introns: 0/32924 (0.000000)

Assembly statistics for: B3

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/B2/NotGuided/transcripts.gtf

*** Proportion of features mapped to the synthetic and experiment

Synthetic: 107544 features

Experiment: 1616 features

*** Reference annotation (Synthetic)

File: /Users/tedwong/Desktop/K_562/ATR001.v032.gtf

Synthetic: 1190 exons

Synthetic: 1028 introns

*** Reference annotation (Experiment)

File: /Users/tedwong/Desktop/K_562/GeneCodeChr1.gtf

Experiment: 106882 exons

Experiment: 89631 introns

*** Statistics for synthetic chromosome ***

*** The following statistics are computed for exact and fuzzy.

*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)

Specificity: 1.00 (1.00)

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

Sensitivity: 0.996032 (0.996032)

Specificity: 0.996032 (0.996032)

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

Sensitivity: 1.00

Specificity: 1.00

----- Intron Chain level -----

Sensitivity: 1.00 (1.00)

Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 1.00 (0.993939)

Specificity: 1.00 (0.993939)

Missing exons: 0/872 (0.000000)

Missing introns: 3/756 (0.003968)

Novel exons: 0/872 (0.000000)

Novel introns: 0/756 (0.000000)

*** Statistics for experiment ***

*** The following statistics are computed for exact and fuzzy.
*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 1.00 (1.00)

Specificity: 1.00 (1.00)

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

Sensitivity: 0.995505 (1.00)

Specificity: 0.995505 (1.00)

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

Sensitivity: 0.996985

Specificity: 0.999936

----- Intron Chain level -----

Sensitivity: 0.968803 (1.00)

Specificity: 1.00 (1.00)

----- Transcript level -----

Sensitivity: 0.971469 (0.891616)

Specificity: 0.996215 (0.914329)

Missing exons: 0/51521 (0.000000)
Missing introns: 140/32924 (0.004252)

Novel exons: 0/50866 (0.000000)
Novel introns: 0/32924 (0.000000)

TransQuin Gene Expression

Gene expression summary

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

Synthetic: 74.5 \pm 0.547723 (0.00122844 \pm 9.00928e-06%)
Experiment: 60571.5 \pm 0.547723 (0.998772 \pm 9.00928e-06%)

Reference: 76 \pm 0 gene
Detected: 72.5 \pm 0.547723 gene

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 4.72069 \pm 5.17125 (R1_62,R1_62,R1_101,R1_72,R1_72,R1_72)

*** Before the break

Intercept: 4.98514 \pm 0.378132
Slope: 0.217904 \pm 0.154108
R2: 0.17477 \pm 0.126267

*** After the break

Intercept: 2.37852 \pm 0.543286
Slope: 0.934362 \pm 0.0937388
R2: 0.807344 \pm 0.116992

*** Overall linear regression

Correlation: 0.914411 \pm 0.0513749
Slope: 5.06309 \pm 1.53683
R2: 0.838347 \pm 0.0939505
F-statistic: 538.889 \pm 357.61
P-value: 0 \pm 0
SSM: 3.33477e+10 \pm 2.17003e+09, DF: 1 \pm 0
SSE: 6.63846e+09 \pm 4.11595e+09, DF: 70.5 \pm 0.547723
SST: 3.99862e+10 \pm 2.52826e+09, DF: 71.5 \pm 0.547723

*** Overall linear regression (log2 scale)

Correlation: 0.882202 \pm 0.0481316
Slope: 0.667792 \pm 0.0375691
R2: 0.78021 \pm 0.0850381

F-statistic: 298.912 ± 152.065
P-value: 0 ± 0
SSM: 892.179 ± 94.4268 , DF: 1 ± 0
SSE: 252.921 ± 102.486 , DF: 70.5 ± 0.547723
SST: 1145.1 ± 54.3084 , DF: 71.5 ± 0.547723

Gene expression statistics for: A1

Summary for input: /Users/tedwong/Desktop/K_562/Cufflinks/A1/genes.fpkms_tracking

Synthetic: 75 (0.00123666%)
Experiment: 60572 (0.998763%)

Reference: 76 gene
Detected: 73 gene

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 3.77655 (R1_62)

*** Before the break

Intercept: 4.39067
Slope: 0.0805742
R2: 0.0567335

*** After the break

Intercept: 2.0794
Slope: 1.00352
R2: 0.922502

*** Overall linear regression

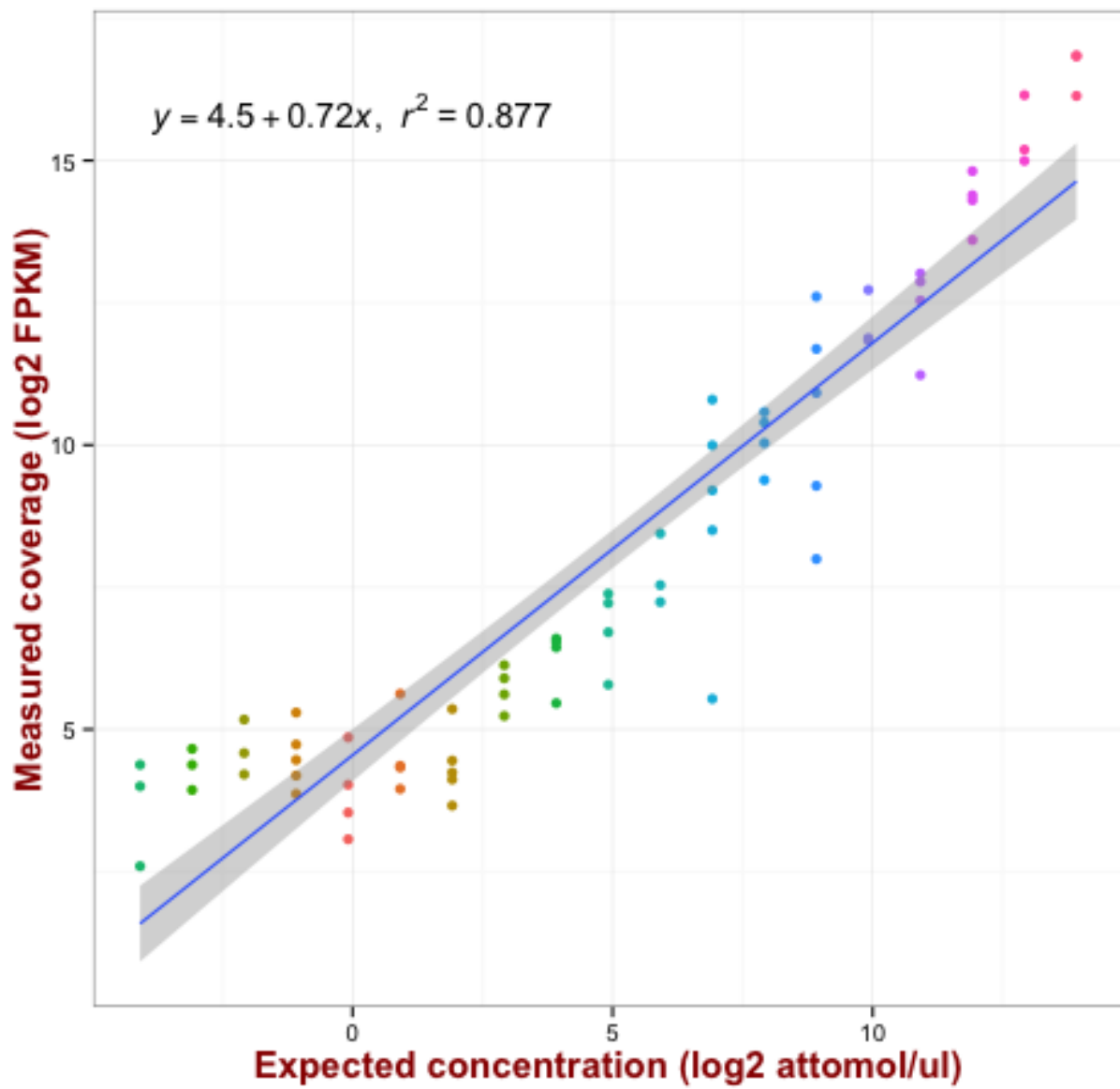
Correlation: 0.962825
Slope: 6.46625
R2: 0.927032
F-statistic: 902.032
P-value: 0
SSM: 3.50824e+10, DF: 1
SSE: 2.76138e+09, DF: 71
SST: 3.78438e+10, DF: 72

*** Overall 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

Gene expression scatter plot for: A1



Gene expression statistics for: A2

Summary for input: /Users/tedwong/Desktop/K_562/Cufflinks/A2/genes.fpkms_tracking

Synthetic: 75 (0.00123666%)
Experiment: 60572 (0.998763%)

Reference: 76 gene
Detected: 73 gene

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 3.77655 (R1_62)

*** Before the break

Intercept: 4.62321
Slope: 0.0227324
R2: 0.00360572

*** After the break

Intercept: 2.20463
Slope: 0.990951
R2: 0.91596

*** Overall linear regression

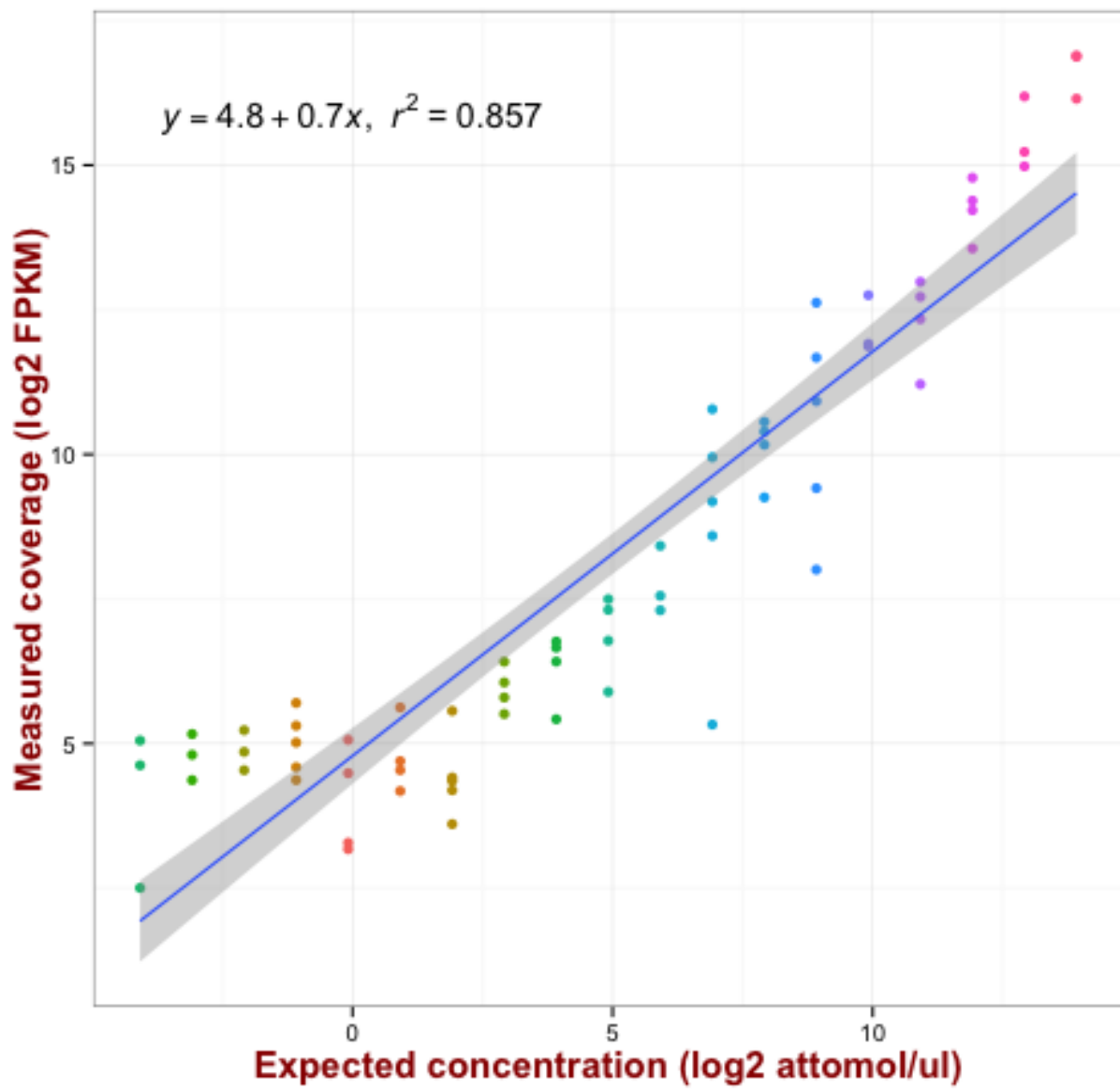
Correlation: 0.960008
Slope: 6.60733
R2: 0.921615
F-statistic: 834.781
P-value: 0
SSM: 3.663e+10, DF: 1
SSE: 3.11546e+09, DF: 71
SST: 3.97454e+10, DF: 72

*** Overall linear regression (log2 scale)

Correlation: 0.925689
Slope: 0.699133
R2: 0.8569
F-statistic: 425.155
P-value: 0

SSM:	967.772, DF: 1
SSE:	161.616, DF: 71
SST:	1129.39, DF: 72

Gene expression scatter plot for: A2



Gene expression statistics for: A3

Summary for input: /Users/tedwong/Desktop/K_562/Cufflinks/A3/genes.fpkms_tracking

Synthetic: 75 (0.00123666%)
Experiment: 60572 (0.998763%)

Reference: 76 gene
Detected: 73 gene

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 15.1062 (R1_101)

*** Before the break

Intercept: 5.25776
Slope: 0.16804
R2: 0.139073

*** After the break

Intercept: 1.51144
Slope: 1.05768
R2: 0.903529

*** Overall linear regression

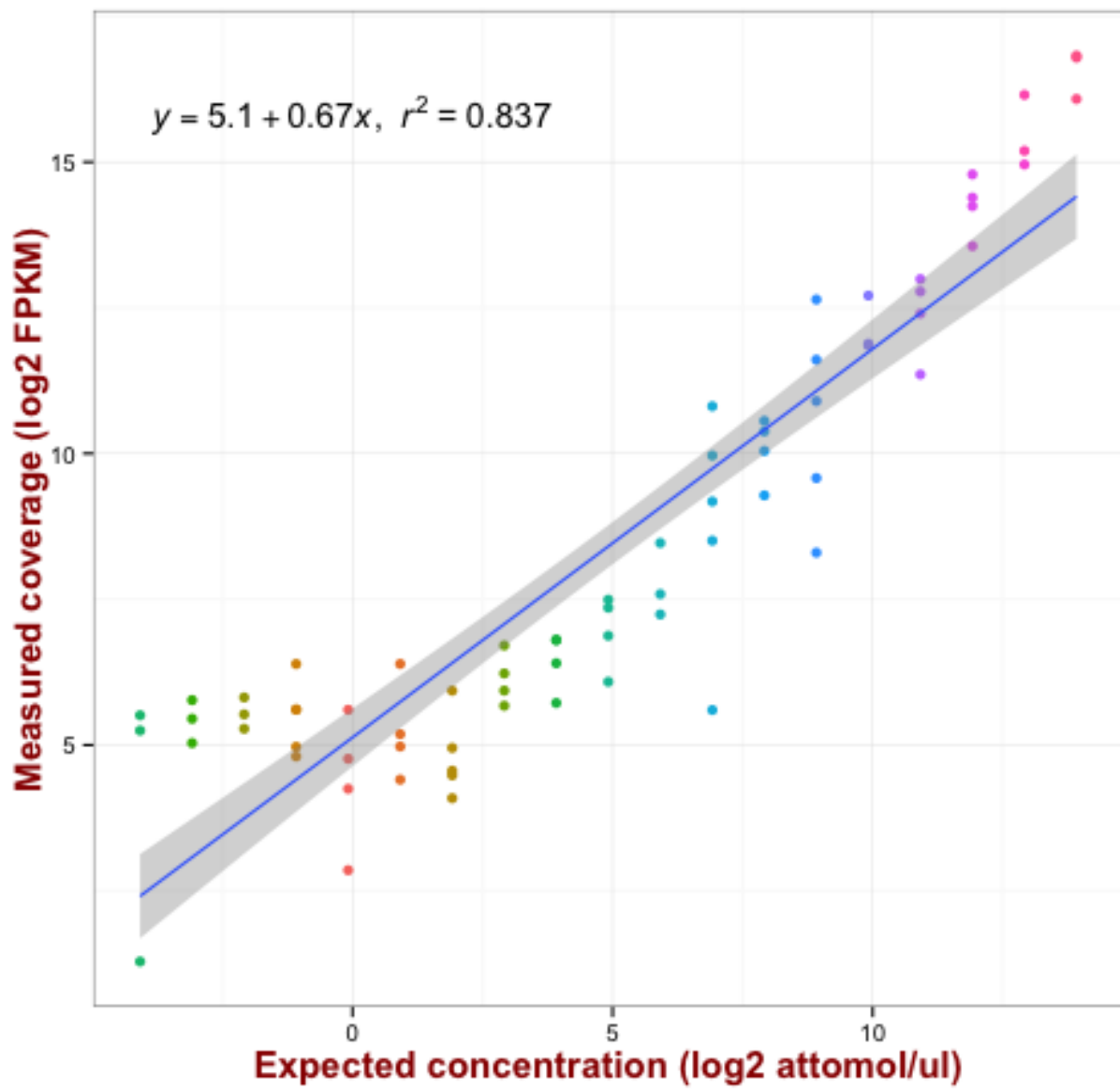
Correlation: 0.961001
Slope: 6.31637
R2: 0.923522
F-statistic: 857.371
P-value: 0
SSM: 3.34749e+10, DF: 1
SSE: 2.7721e+09, DF: 71
SST: 3.6247e+10, DF: 72

*** Overall linear regression (log2 scale)

Correlation: 0.915017
Slope: 0.666601
R2: 0.837255
F-statistic: 365.266
P-value: 0

SSM:	879.802, DF: 1
SSE:	171.015, DF: 71
SST:	1050.82, DF: 72

Gene expression scatter plot for: A3



Gene expression statistics for: B1

Summary for input: /Users/tedwong/Desktop/K_562/Cufflinks/B1/genes.fpkms_tracking

Synthetic: 74 (0.00122022%)
Experiment: 60571 (0.99878%)

Reference: 76 gene
Detected: 72 gene

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 1.88828 (R1_72)

*** Before the break

Intercept: 5.19759
Slope: 0.42932
R2: 0.278885

*** After the break

Intercept: 2.76376
Slope: 0.857773
R2: 0.701784

*** Overall linear regression

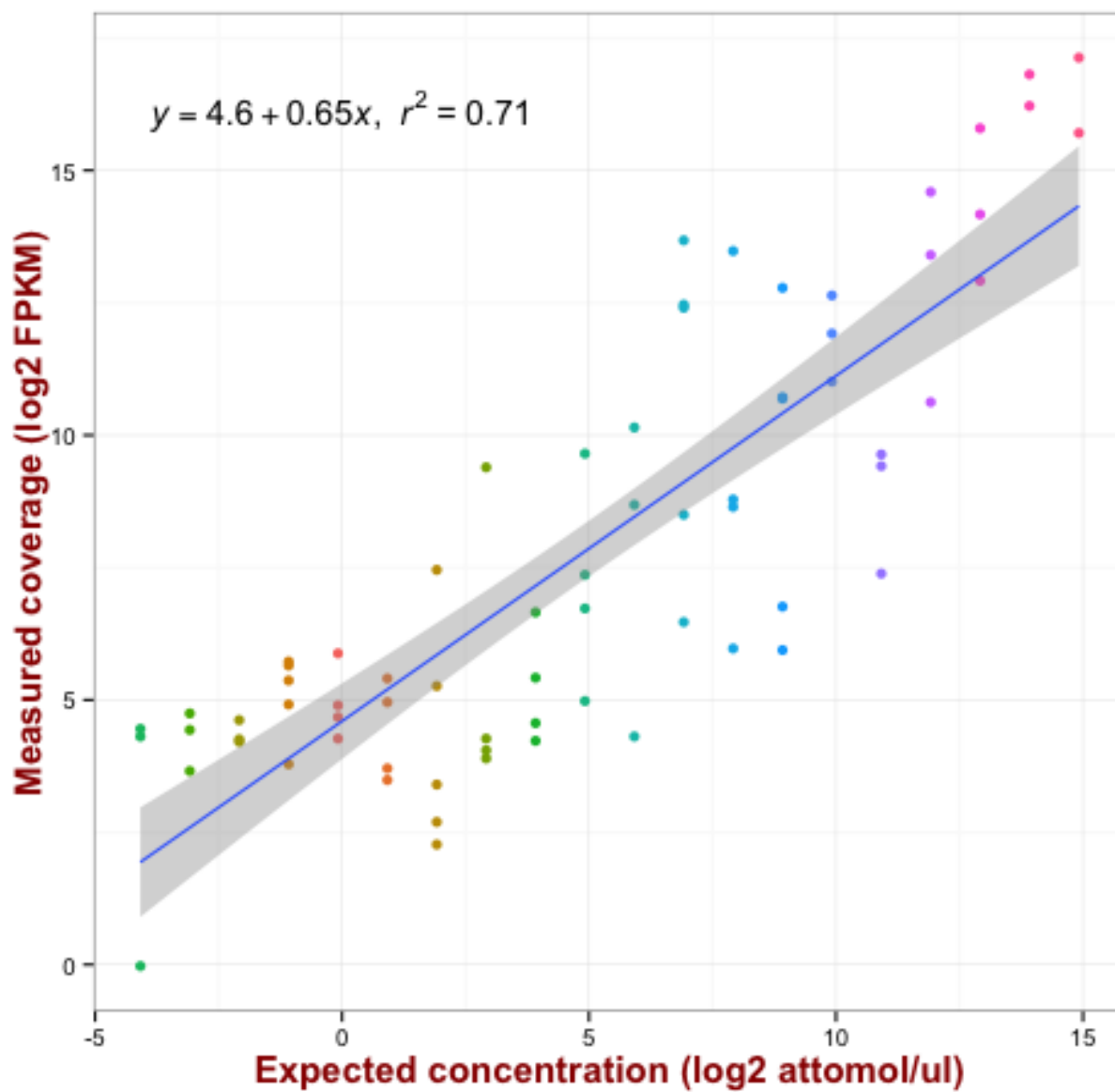
Correlation: 0.87057
Slope: 3.70819
R2: 0.757893
F-statistic: 219.128
P-value: 0
SSM: 3.24184e+10, DF: 1
SSE: 1.0356e+10, DF: 70
SST: 4.27744e+10, DF: 71

*** Overall linear regression (log2 scale)

Correlation: 0.84233
Slope: 0.652163
R2: 0.709519
F-statistic: 170.98
P-value: 0

SSM:	856.494, DF: 1
SSE:	350.653, DF: 70
SST:	1207.15, DF: 71

Gene expression scatter plot for: B1



Gene expression statistics for: B2

Summary for input: /Users/tedwong/Desktop/K_562/Cufflinks/B2/genes.fpkms_tracking

Synthetic: 74 (0.00122022%)
Experiment: 60571 (0.99878%)

Reference: 76 gene
Detected: 72 gene

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 1.88828 (R1_72)

*** Before the break

Intercept: 5.22081
Slope: 0.303379
R2: 0.28516

*** After the break

Intercept: 2.85593
Slope: 0.848121
R2: 0.700146

*** Overall linear regression

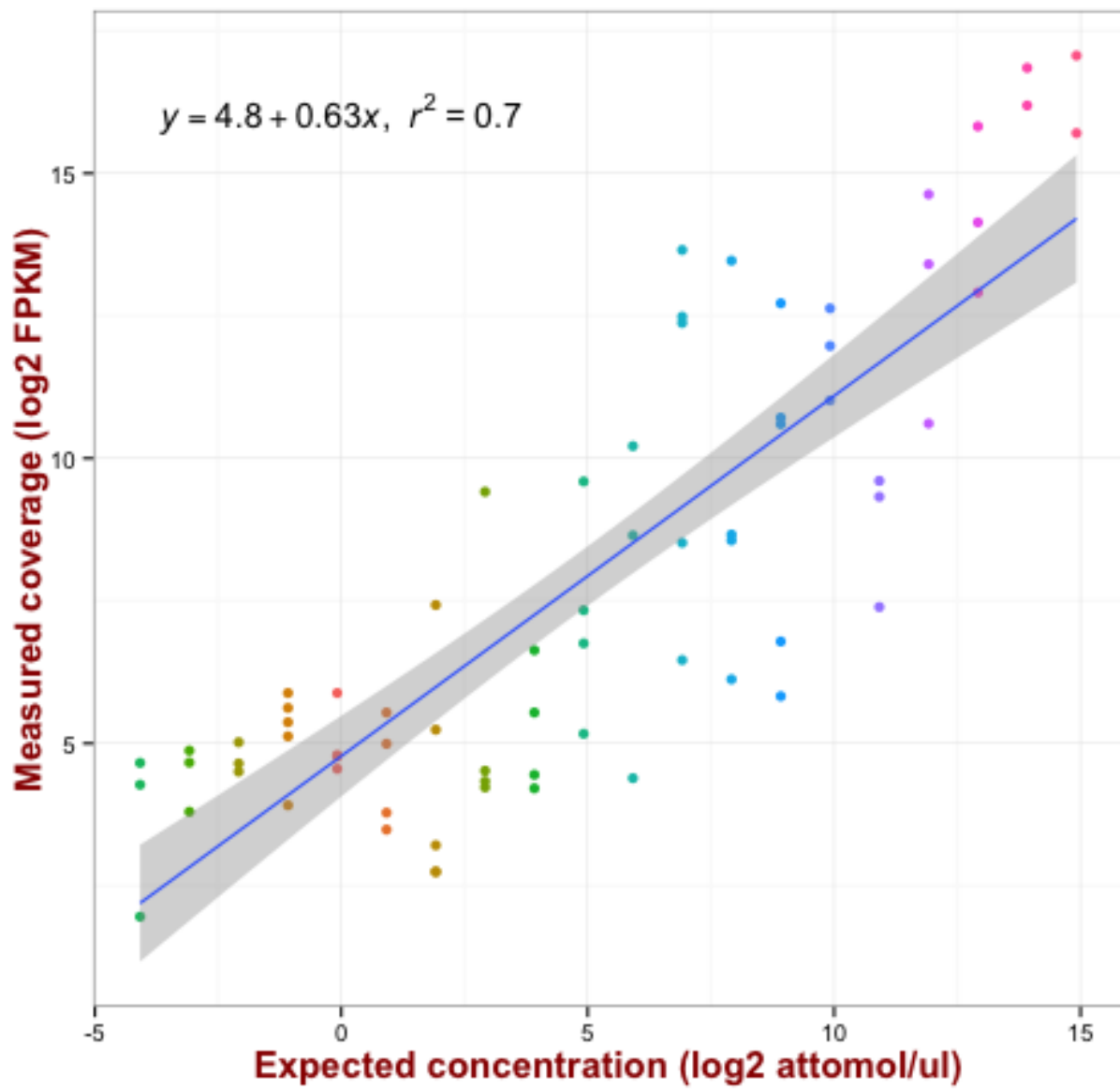
Correlation: 0.866031
Slope: 3.64019
R2: 0.750009
F-statistic: 210.01
P-value: 0
SSM: 3.12402e+10, DF: 1
SSE: 1.04129e+10, DF: 70
SST: 4.16532e+10, DF: 71

*** Overall linear regression (log2 scale)

Correlation: 0.836934
Slope: 0.63197
R2: 0.700459
F-statistic: 163.691
P-value: 0

SSM:	804.275, DF: 1
SSE:	343.936, DF: 70
SST:	1148.21, DF: 71

Gene expression scatter plot for: B2



Gene expression statistics for: B3

Summary for input: /Users/tedwong/Desktop/K_562/Cufflinks/B3/genes.fpkms_tracking

Synthetic: 74 (0.00122022%)
Experiment: 60571 (0.99878%)

Reference: 76 gene
Detected: 72 gene

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 1.88828 (R1_72)

*** Before the break

Intercept: 5.22081
Slope: 0.303379
R2: 0.28516

*** After the break

Intercept: 2.85593
Slope: 0.848121
R2: 0.700146

*** Overall linear regression

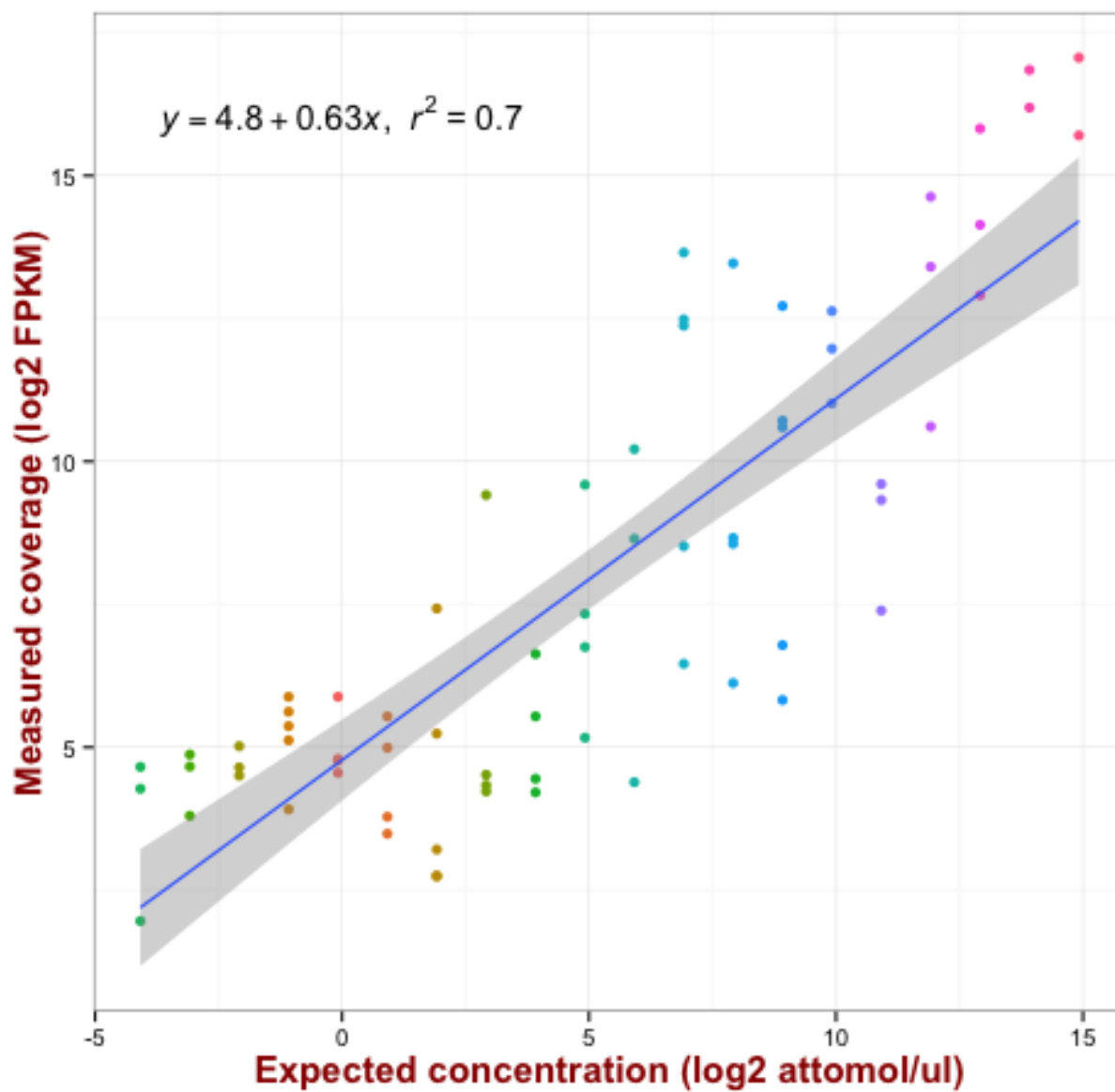
Correlation: 0.866031
Slope: 3.64019
R2: 0.750009
F-statistic: 210.01
P-value: 0
SSM: 3.12402e+10, DF: 1
SSE: 1.04129e+10, DF: 70
SST: 4.16532e+10, DF: 71

*** Overall linear regression (log2 scale)

Correlation: 0.836934
Slope: 0.63197
R2: 0.700459
F-statistic: 163.691
P-value: 0

SSM:	804.275, DF: 1
SSE:	343.936, DF: 70
SST:	1148.21, DF: 71

Gene expression scatter plot for: B3



TransQuin Isoform Expression

Isoform expression summary

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab,/Users/tedwong/Desktop/K_562/S

Synthetic: 164 \pm 0 (0.00162484 \pm 0%)
Experiment: 100769 \pm 0 (0.998375 \pm 1.21619e-16%)

Reference: 162 \pm 0 isoform
Detected: 162 \pm 0 isoform

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 3.5544 \pm 0 (R1_32_1,R1_32_1,R1_32_1,R1_32_1,R1_32_1,R1_32_1)

*** Before the break

Intercept: 1.25307 \pm 0
Slope: 0.157653 \pm 0
R2: 0.0887965 \pm 0

*** After the break

Intercept: 0.825739 \pm 0
Slope: 1.06985 \pm 0
R2: 0.865753 \pm 0

*** Overall linear regression

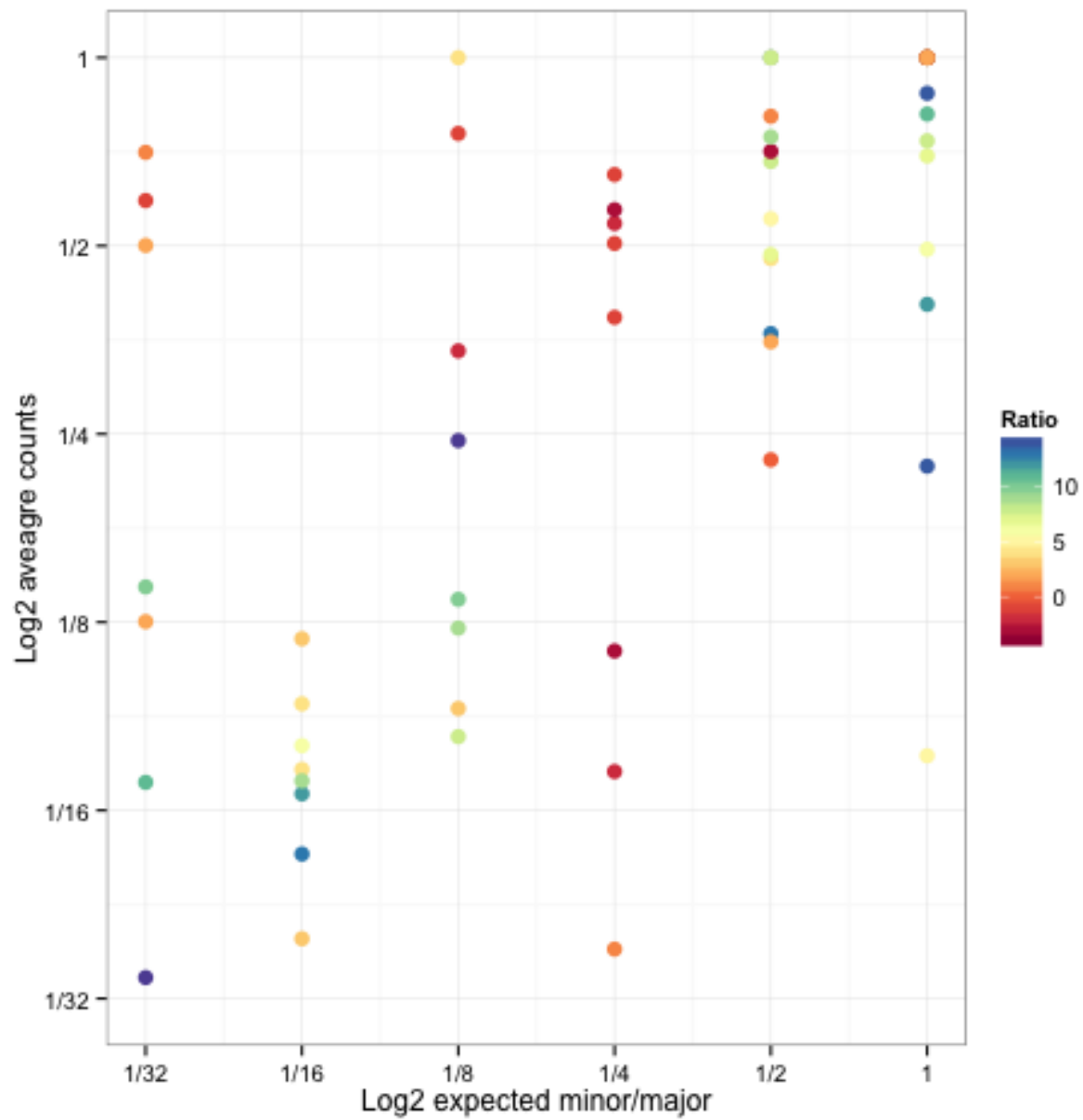
Correlation: 0.951062 \pm 0
Slope: 5.16984 \pm 9.72951e-16
R2: 0.904519 \pm 0
F-statistic: 1373.62 \pm 2.49075e-13
P-value: 0 \pm 0
SSM: 7.55327e+10 \pm 0, DF: 1 \pm 0
SSE: 7.97327e+09 \pm 0, DF: 145 \pm 0
SST: 8.35059e+10 \pm 0, DF: 146 \pm 0

*** Overall linear regression (log2 scale)

Correlation: 0.940142 \pm 1.21619e-16
Slope: 0.820425 \pm 0
R2: 0.883867 \pm 1.21619e-16

F-statistic: 1103.57 \pm 0
P-value: 0 \pm 0
SSM: 3387.56 \pm 0, DF: 1 \pm 0
SSE: 445.096 \pm 6.22688e-14, DF: 145 \pm 0
SST: 3832.65 \pm 0, DF: 146 \pm 0

Minor/Major plot



Isoform expression statistics for: A1

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab

Synthetic: 164 (0.00162484%)
Experiment: 100769 (0.998375%)

Reference: 162 isoform
Detected: 162 isoform

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 3.5544 (R1_32_1)

*** Before the break

Intercept: 1.25307
Slope: 0.157653
R2: 0.0887965

*** After the break

Intercept: 0.825739
Slope: 1.06985
R2: 0.865753

*** Overall linear regression

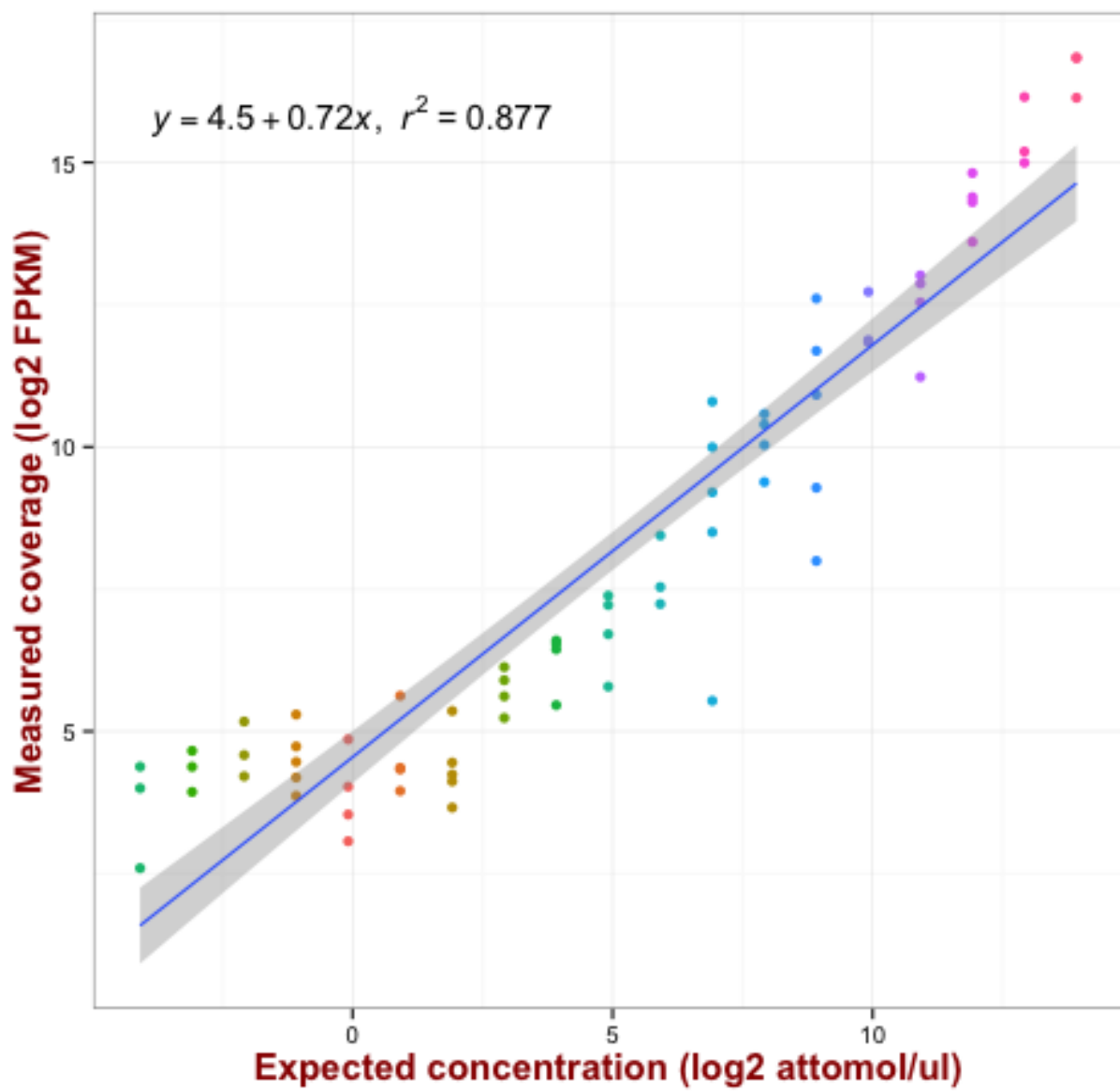
Correlation: 0.951062
Slope: 5.16984
R2: 0.904519
F-statistic: 1373.62
P-value: 0
SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146

*** Overall linear regression (log2 scale)

Correlation: 0.940142
Slope: 0.820425
R2: 0.883867
F-statistic: 1103.57
P-value: 0

SSM:	3387.56, DF: 1
SSE:	445.096, DF: 145
SST:	3832.65, DF: 146

Isoform expression scatter plot for: A1



Isoform expression statistics for: A2

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab

Synthetic: 164 (0.00162484%)
Experiment: 100769 (0.998375%)

Reference: 162 isoform
Detected: 162 isoform

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 3.5544 (R1_32_1)

*** Before the break

Intercept: 1.25307
Slope: 0.157653
R2: 0.0887965

*** After the break

Intercept: 0.825739
Slope: 1.06985
R2: 0.865753

*** Overall linear regression

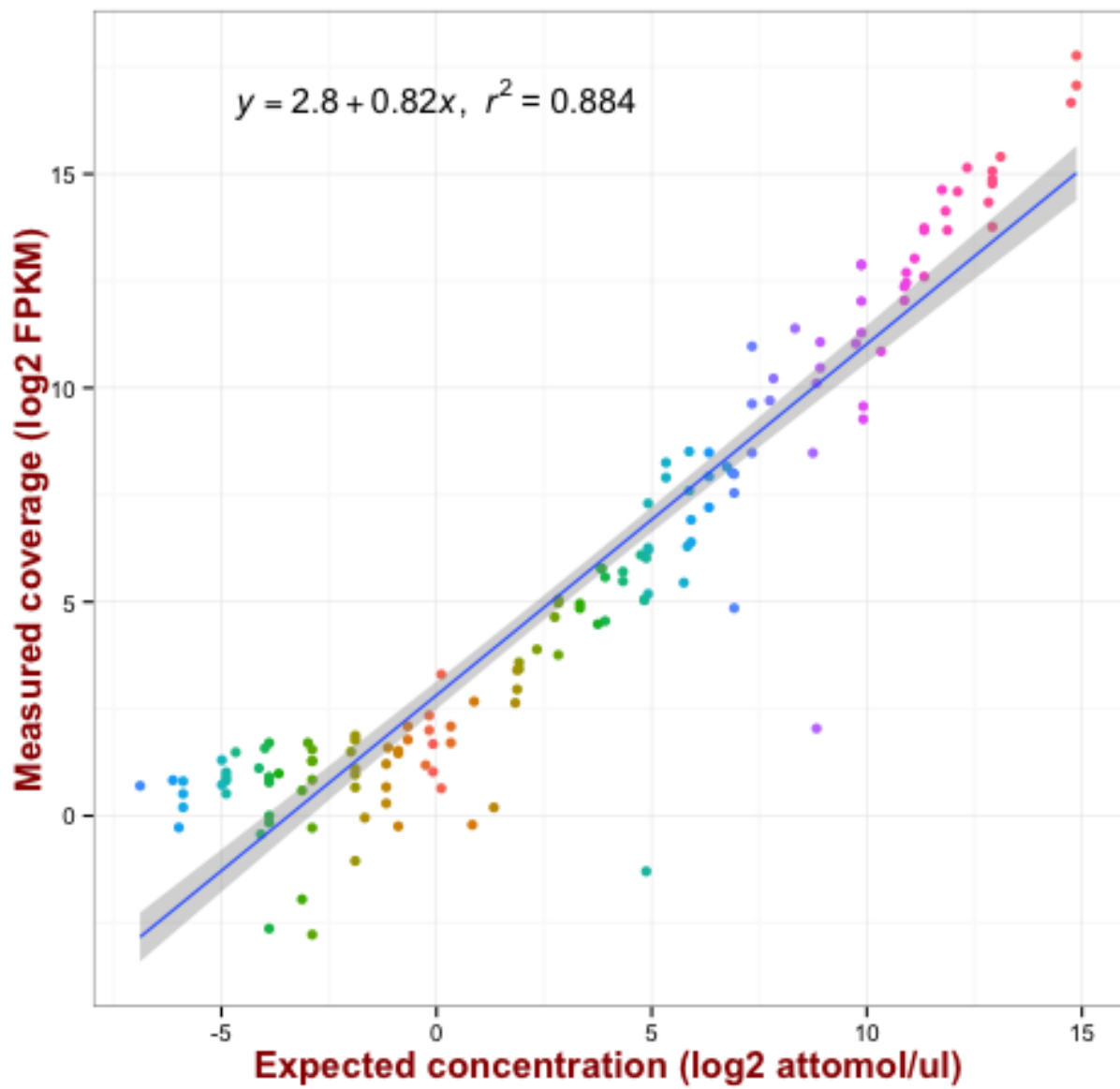
Correlation: 0.951062
Slope: 5.16984
R2: 0.904519
F-statistic: 1373.62
P-value: 0
SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146

*** Overall linear regression (log2 scale)

Correlation: 0.940142
Slope: 0.820425
R2: 0.883867
F-statistic: 1103.57
P-value: 0

SSM:	3387.56, DF: 1
SSE:	445.096, DF: 145
SST:	3832.65, DF: 146

Isoform expression scatter plot for: A2



Isoform expression statistics for: A3

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab

Synthetic: 164 (0.00162484%)
Experiment: 100769 (0.998375%)

Reference: 162 isoform
Detected: 162 isoform

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 3.5544 (R1_32_1)

*** Before the break

Intercept: 1.25307
Slope: 0.157653
R2: 0.0887965

*** After the break

Intercept: 0.825739
Slope: 1.06985
R2: 0.865753

*** Overall linear regression

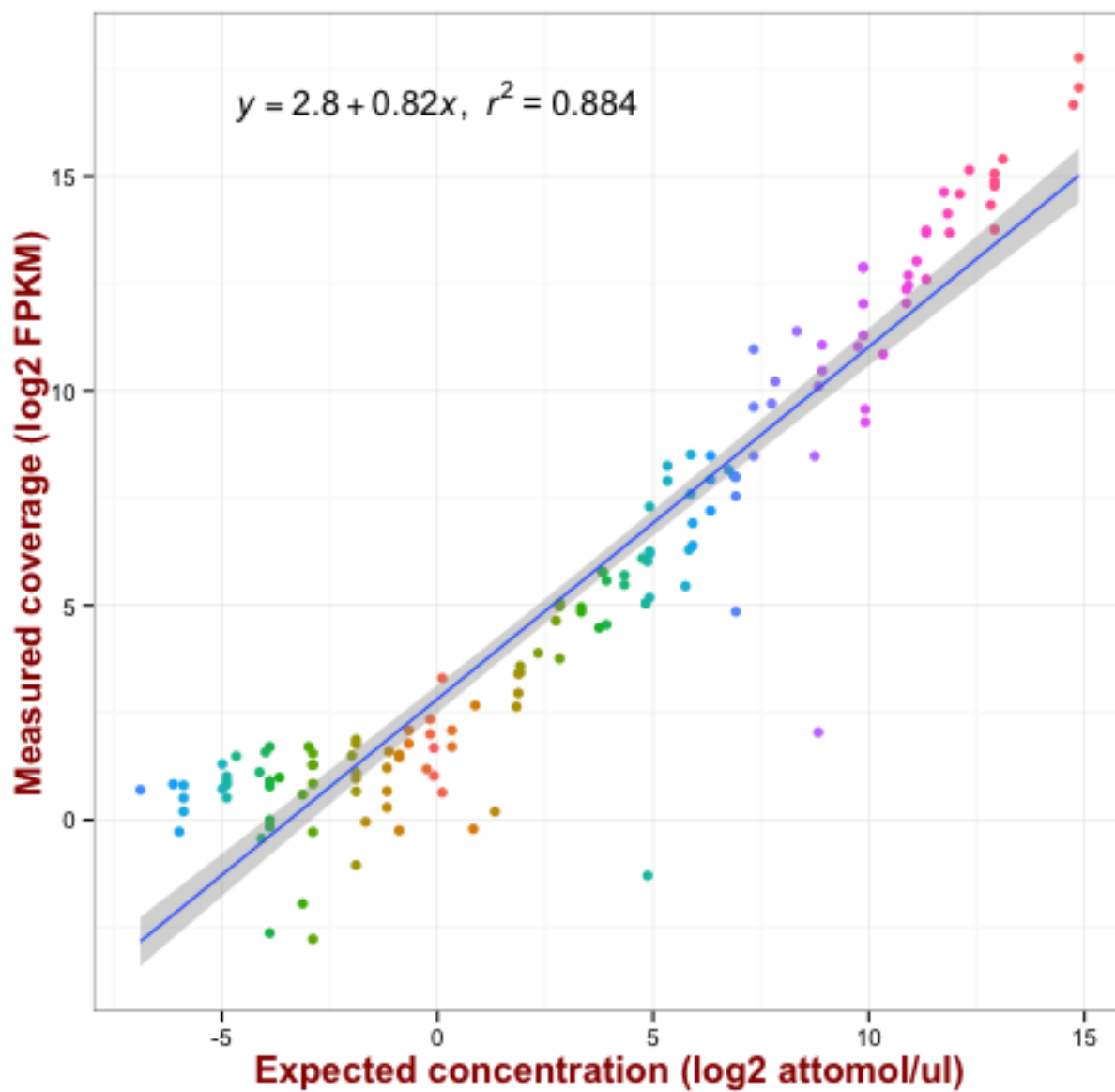
Correlation: 0.951062
Slope: 5.16984
R2: 0.904519
F-statistic: 1373.62
P-value: 0
SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146

*** Overall linear regression (log2 scale)

Correlation: 0.940142
Slope: 0.820425
R2: 0.883867
F-statistic: 1103.57
P-value: 0

SSM:	3387.56, DF: 1
SSE:	445.096, DF: 145
SST:	3832.65, DF: 146

Isoform expression scatter plot for: A3



Isoform expression statistics for: B1

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab

Synthetic: 164 (0.00162484%)
Experiment: 100769 (0.998375%)

Reference: 162 isoform
Detected: 162 isoform

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 3.5544 (R1_32_1)

*** Before the break

Intercept: 1.25307
Slope: 0.157653
R2: 0.0887965

*** After the break

Intercept: 0.825739
Slope: 1.06985
R2: 0.865753

*** Overall linear regression

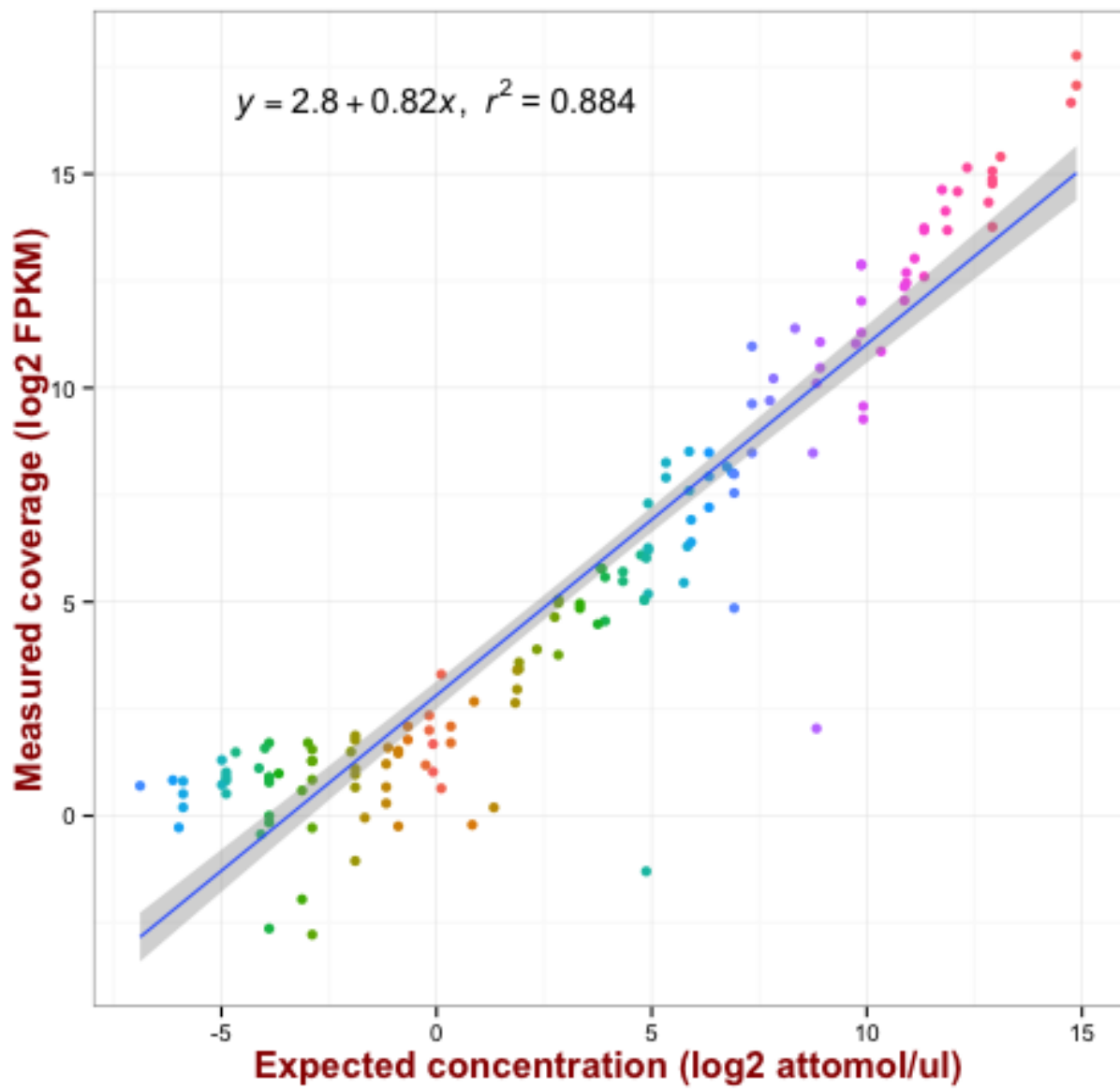
Correlation: 0.951062
Slope: 5.16984
R2: 0.904519
F-statistic: 1373.62
P-value: 0
SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146

*** Overall linear regression (log2 scale)

Correlation: 0.940142
Slope: 0.820425
R2: 0.883867
F-statistic: 1103.57
P-value: 0

SSM:	3387.56, DF: 1
SSE:	445.096, DF: 145
SST:	3832.65, DF: 146

Isoform expression scatter plot for: B1



Isoform expression statistics for: B2

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab

Synthetic: 164 (0.00162484%)
Experiment: 100769 (0.998375%)

Reference: 162 isoform
Detected: 162 isoform

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 3.5544 (R1_32_1)

*** Before the break

Intercept: 1.25307
Slope: 0.157653
R2: 0.0887965

*** After the break

Intercept: 0.825739
Slope: 1.06985
R2: 0.865753

*** Overall linear regression

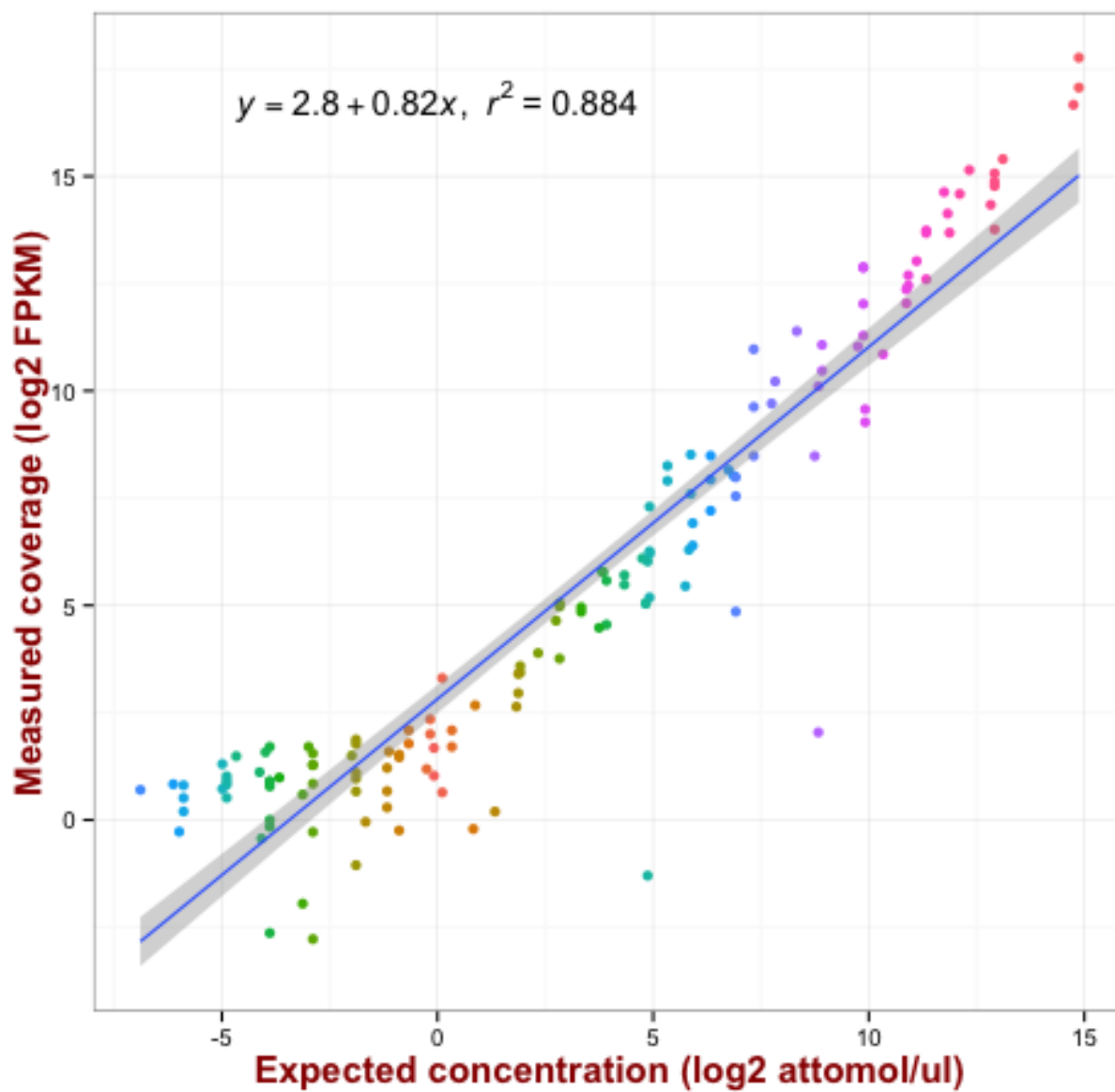
Correlation: 0.951062
Slope: 5.16984
R2: 0.904519
F-statistic: 1373.62
P-value: 0
SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146

*** Overall linear regression (log2 scale)

Correlation: 0.940142
Slope: 0.820425
R2: 0.883867
F-statistic: 1103.57
P-value: 0

SSM:	3387.56, DF: 1
SSE:	445.096, DF: 145
SST:	3832.65, DF: 146

Isoform expression scatter plot for: B2



Isoform expression statistics for: B3

Summary for input: /Users/tedwong/Desktop/K_562/StringTie/A1/t_data.ctab

Synthetic: 164 (0.00162484%)
Experiment: 100769 (0.998375%)

Reference: 162 isoform
Detected: 162 isoform

*** Detection Limit. Estimated by piecewise segmented regression.

Break: 3.5544 (R1_32_1)

*** Before the break

Intercept: 1.25307
Slope: 0.157653
R2: 0.0887965

*** After the break

Intercept: 0.825739
Slope: 1.06985
R2: 0.865753

*** Overall linear regression

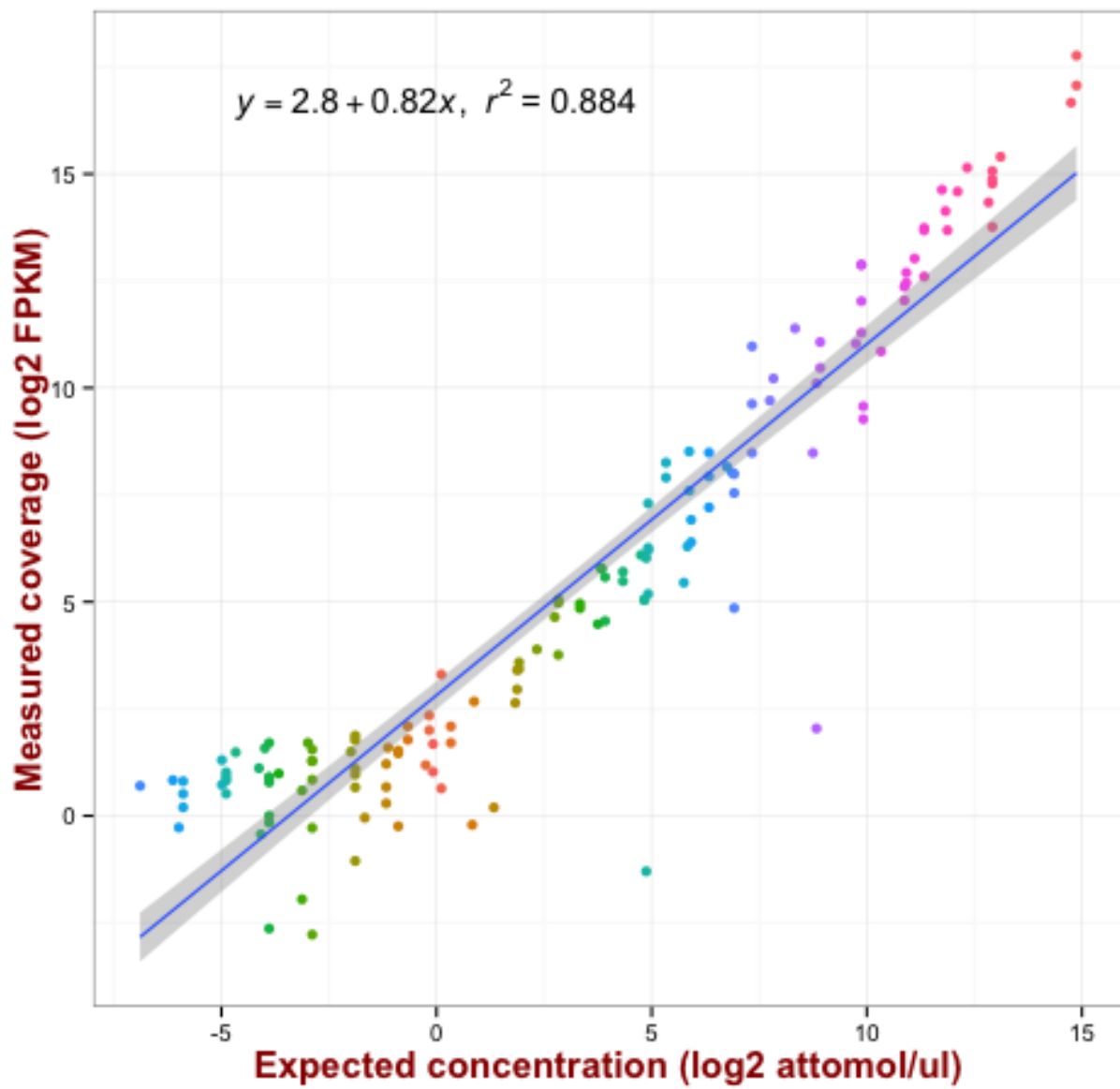
Correlation: 0.951062
Slope: 5.16984
R2: 0.904519
F-statistic: 1373.62
P-value: 0
SSM: 7.55327e+10, DF: 1
SSE: 7.97327e+09, DF: 145
SST: 8.35059e+10, DF: 146

*** Overall linear regression (log2 scale)

Correlation: 0.940142
Slope: 0.820425
R2: 0.883867
F-statistic: 1103.57
P-value: 0

SSM:	3387.56, DF: 1
SSE:	445.096, DF: 145
SST:	3832.65, DF: 146

Isoform expression scatter plot for: B3



TransQuin Differential

Differential summary statistics

Summary for dataset: /Users/tedwong/Desktop/K_562/DESeq2/DESeq2.csv

Experiment: 60500 gene
Synthetic: 75 gene

Reference: 76 gene
Detected: 75 gene

*** Detection Limits

Absolute: 0.0590086 (attomol/ul) (R2_38)

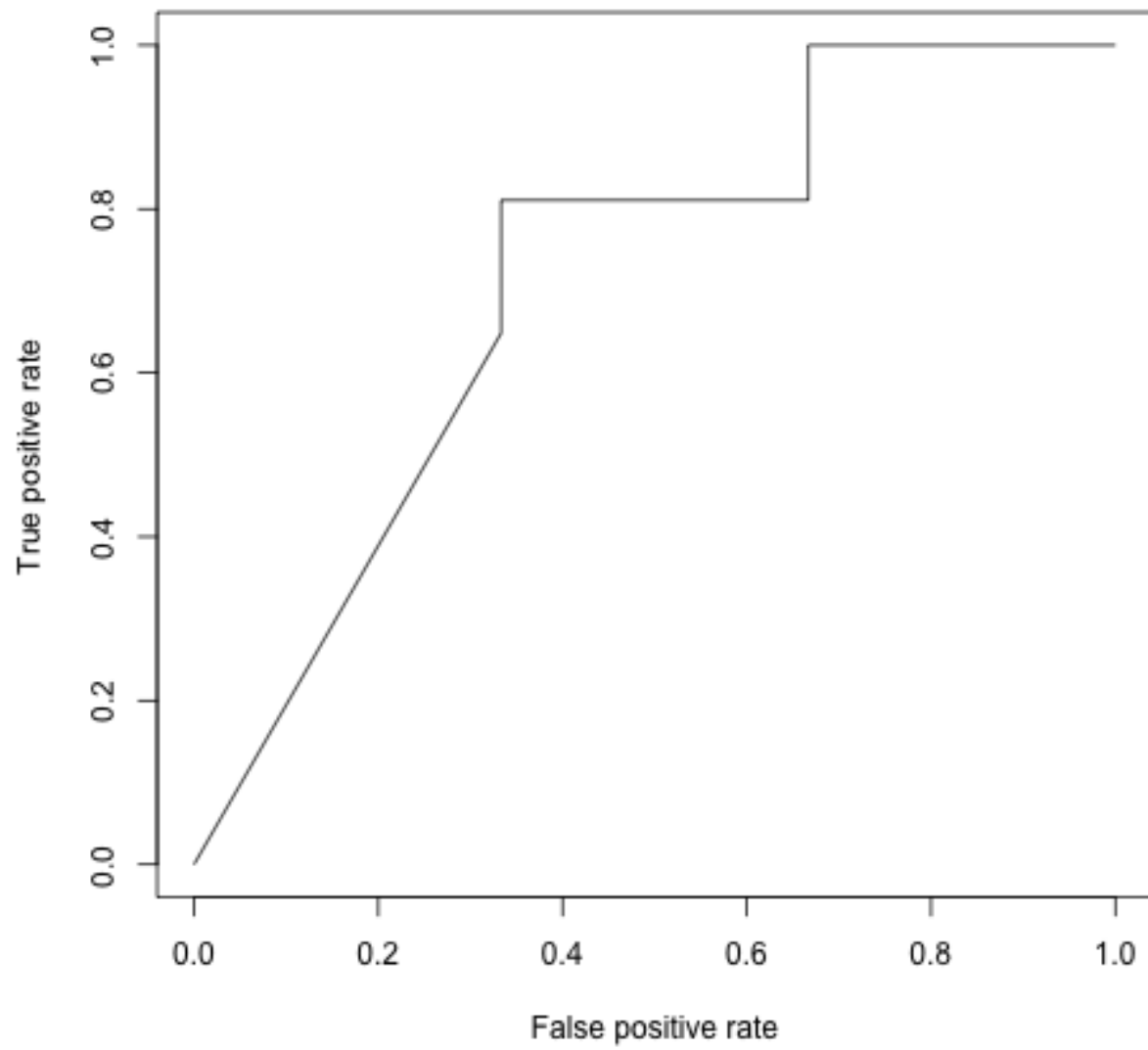
*** Statistics for linear regression

Correlation: 0.707428
Slope: 0.426606
R2: 0.500454
F-statistic: 73.1328
P-value: 1.29274e-12
SSM: 302.202, DF: 1
SSE: 301.653, DF: 73
SST: 603.855, DF: 74

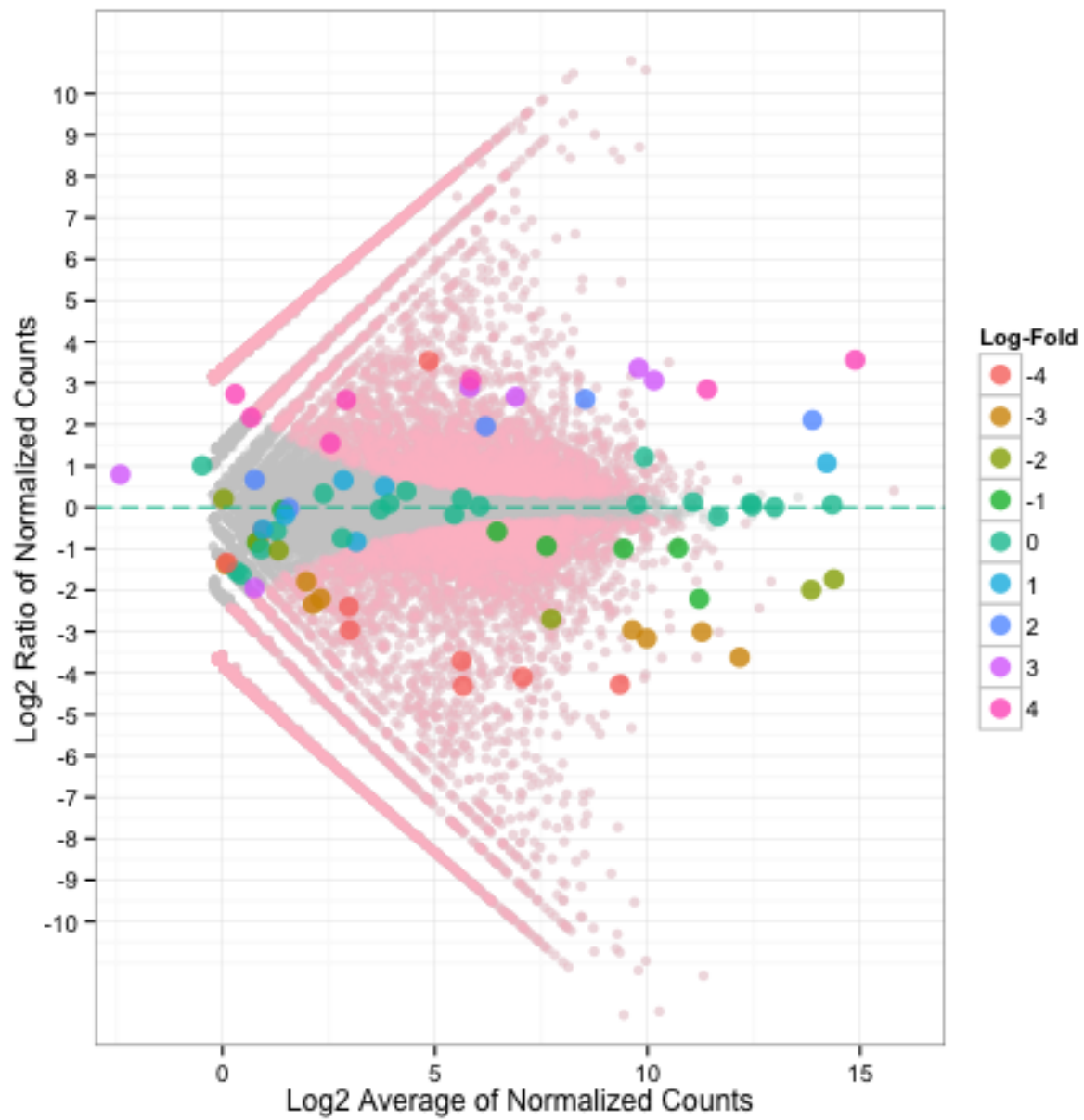
*** Statistics for linear regression (log2 scale)

Correlation: 0.790229
Slope: 0.648599
R2: 0.624462
F-statistic: 121.388
P-value: 0
SSM: 183.058, DF: 1
SSE: 110.087, DF: 73
SST: 293.145, DF: 74

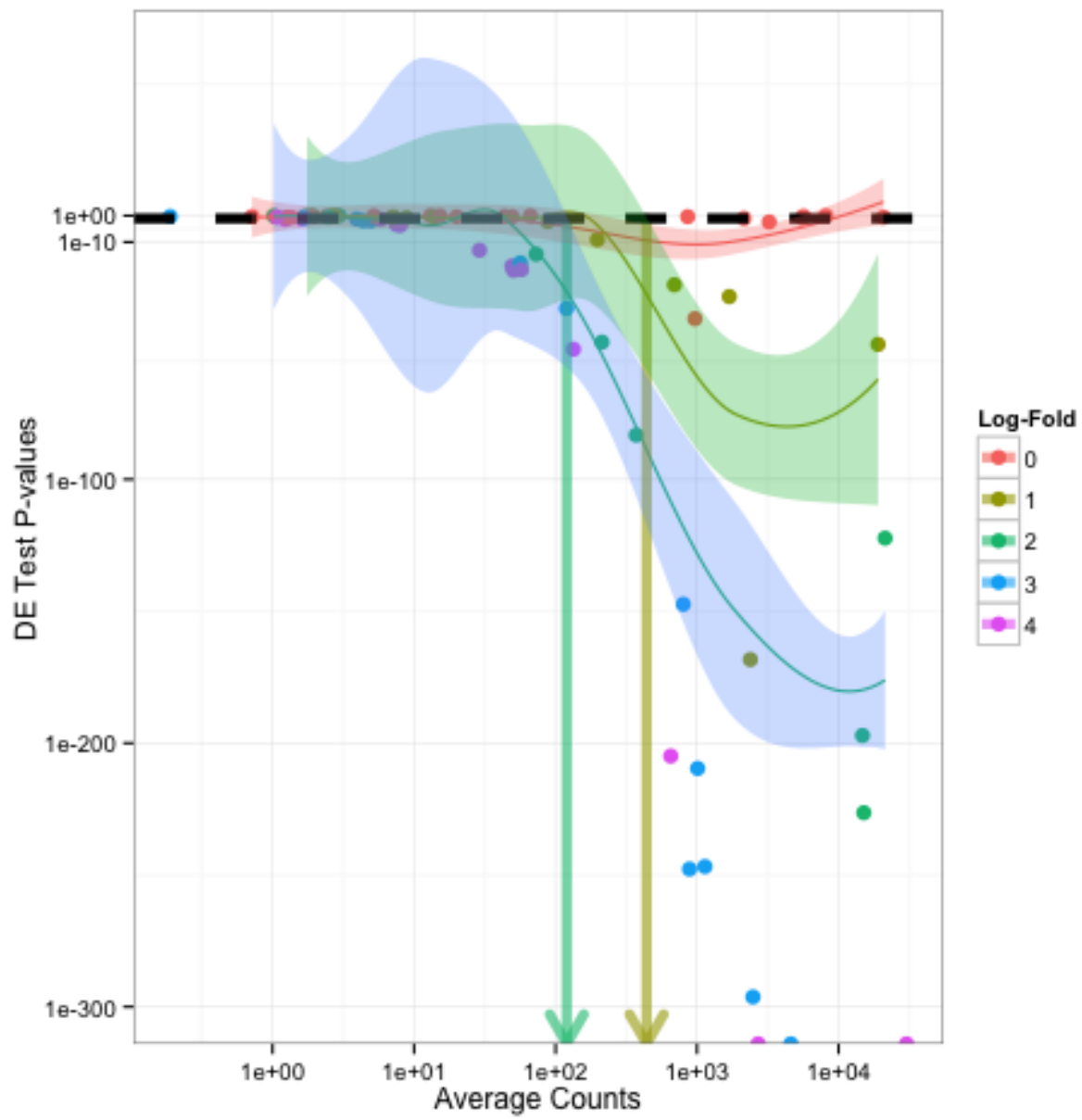
ROC plot



MA plot



LODR plot



Appendix: TransQuin Alignment

Sequin statistics for: A1

ID	Abundance (attomol/ul)	Covered	Sensitivity (Exon)	Specificity (Exon)	Sensitivity (Intron)	Spe
R1_101	15.1062 0.845083	1	0.999532	1 1 0.845083	0.998971	
R1_102	15.1062 0.721599	1	0.994156	1 0.901155	0.721599	0.998544
R1_103	966.797 0.628255	1	0.995319	1 0.977373	0.628255	0.99561
R1_11	241.699 0.645833	1	0.998799	1 0.998818	0.645833	0.997923
R1_12	30.2124 0.591978	1	0.992884	1 0.9983	0.591978	0.997669
R1_13	7734.38 0.920394	1	0.987685	0.909091 0.946898	0.920394	0.995898
R1_14	483.398 1 1 0.999823	-- --	1	0.995502		
R1_21	30937.5 0.630945	1	0.993234	1 0.916456	0.630945	0.942446
R1_22	483.398 0.528054	1	0.998358	1 0.0416689	0.528054	0.993191
R1_23	15.1062 0.608499	1	0.988379	1 0.00621383	0.608499	0.997146
R1_24	483.398 0.999782	1	0.995249	1 0.998266	0.999782	0.997819
R1_31	241.699 0.688293	1	0.995473	1 0.244225	0.688293	0.994565
R1_32	60.4248 0.545455	1	0.999737	1 1 0.545455	0.99894	
R1_33	0.118017 0.899202	1	0.993455	1 0.994169	0.899202	0.998359
R1_41	7734.37 0.78125 1	0.996675	1	0.999808	0.78125	0.995575
R1_42	7734.38 0.617479	1	0.980681	1 0.976687	0.617479	0.988844
R1_43	120.85 0.540369	1	0.990501	0.973684	0.96341 0.540369	0.996994
R1_51	1933.59 0.607103	1	0.996288	1 0.999373	0.607103	0.993542
R1_52	0.944138 0.622807	1	0.991475	1 1 0.622807	0.971446	
R1_53	120.85 0.998489	1	0.99784	1 0.370359	0.998489	0.996482
R1_61	7.5531 0.679466	1	1 1 1	0.679466	1	
R1_62	3.77655 0.774336	1	1 1 1	0.774336	1	
R1_63	3867.19 0.669443	1	0.995492	1 0.971203	0.669443	0.995741
R1_71	15468.8 0.740968	1	0.994243	1 0.998708	0.740968	0.987705
R1_72	1.88828 0.582844	1	1 1 1	0.582844	1	
R1_73	1933.59 0.731952	1	0.984041	1 0.98719	0.731952	0.996865
R1_81	120.85 0.747244	1	0.99754	1 0.995044	0.747244	0.996849
R1_82	3867.19 0.587741	1	0.995744	1 0.992876	0.587741	0.991501
R1_83	30.2124 0.644813	1	0.998373	1 0.997866	0.644813	0.997613
R1_91	0.472069 0.685055	1	1 1 1	1 0.685055	1	
R1_92	241.699 0.777919	1	0.980772	1 0.995753	0.777919	0.99513
R1_93	60.4248 0.625086	1	0.996054	1 0.999554	0.625086	0.996156
R2_1	0.944138 0.99196	1	1 -- --	0.99196	1	
R2_105	0.944138 0.874667	1	0.967742	-- -- 0.874667	0.99696	
R2_115	120.85 0.837412	1	0.988931	1 0.996079	0.837412	0.923815
R2_116	1.88828 0.584726	1	0.987644	1 1 0.584726	0.997557	
R2_117	60.4248 0.711066	1	0.999248	1 0.998209	0.711066	0.996411
R2_14	15468.8 0.719569	1	0.988252	1 0.987247	0.719569	0.991507
R2_150	1933.59 0.835063	1	0.998167	1 0.518953	0.835063	0.991781
R2_151	1.88828 0.578303	1	0.983911	1 0.000681453	0.578303	0.999244
R2_152	30.2124 0.603856	1	0.99729	1 0.0120943	0.603856	0.998386
R2_153	0.944138 0.677873	1	0.995311	1 0.359343	0.677873	0.999099
R2_154	3867.19 0.855658	1	0.989621	1 0.547718	0.855658	0.994631
R2_18	15468.8 0.628326	1	0.9853	1 0.852844	0.628326	0.985276
R2_19	3867.19 0.811493	1	0.992328	1 0.98788	0.811493	0.998432
R2_20	30.2124 0.735871	1	0.997986	1 0.997017	0.735871	0.997394
R2_24	15.1062 0.586003	0.979592	0.991056	0.957447	0.693273	0.586003 0.998239
R2_26	1933.59 0.916638	1	0.994978	1 0.994222	0.916638	0.997942
R2_27	7.5531 0.754167	1	0.995777	1 1 0.754167	0.999606	

R2_28	0.472069	0.68506	1	1	1	1	0.68506	1			
R2_32	0.472069	0.671486	1	0.98234	1	1	0.671486	0.997715			
R2_33	0.0590086	0.879859	1	1	1	0.000191773	0.879859	1			
R2_37	0.236034	0.719465	1	0.993295	1	0.982877	0.719465	0.998428			
R2_38	0.0590086	0.391233	1	0.989899	1	1	0.391233	0.995805			
R2_41	241.699	0.837384	1	0.991692	1	0.995112	0.837384	0.989443			
R2_42	0.236034	0.882171	1	0.998311	1	1	0.882171	0.999561			
R2_45	0.472069	0.462072	1	1	1	1	0.462072	1			
R2_46	0.118017	0.688515	1	0.993056	1	1	0.688515	0.967061			
R2_47	120.85	0.887733	1	0.996614	1	0.997939	0.887733	0.998675			
R2_53	0.118017	0.396308	1	0.989455	1	0.997009	0.396308	0.997744			
R2_54	483.398	0.864703	1	0.982539	1	0.996987	0.864703	0.996936			
R2_55	30937.5	0.880804	1	0.987179	1	0.873955	0.880804	0.99142			
R2_57	7.5531	0.65303	1	0.996765	1	1	0.65303	0.998819			
R2_59	0.472069	0.588824	1	0.988263	1	0.993952	0.588824	0.999726			
R2_6	483.398	0.702025	1	0.996212	1	0.990037	0.702025	0.98913			
R2_60	7.5531	0.605403	1	0.996636	1	1	0.605403	0.997073			
R2_63	966.797	0.879982	1	0.987448	1	0.997983	0.879982	0.997517			
R2_65	3.77655	0.995595	1	1	--	--	0.995595	1			
R2_66	30937.5	0.529254	1	0.999748	1	0.999936	0.529254	0.985015			
R2_67	3.77655	0.959847	1	1	1	1	0.959847	1			
R2_68	3.77655	0.705317	1	0.998856	1	1	0.705317	0.999367			
R2_7	966.797	0.760474	1	0.994878	1	0.994215	0.760474	0.994466			
R2_71	3.77655	0.72861	1	0.986272	1	1	0.72861	0.998168			
R2_72	0.236034	0.320416	0.866667	0.993094	0.727273	1	0.320416	0.99815			
R2_73	1.88828	0.94562	1	0.988466	1	0.996508	0.94562	0.999279			
R2_76	0.0590086	0.470652	1	1	1	1	0.470652	1			

Sequin statistics for: A2

ID	Abundance (attomol/ul)			Covered Sensitivity (Exon)			Specificity (Exon)		Sensitivity (Intron)		Spe
R1_101	15.1062	0.843342	1	0.997495	1	0.995816	0.843342	0.995889			
R1_102	15.1062	0.721599	1	0.995219	1	0.00552418	0.721599	0.998544			
R1_103	966.797	0.628532	1	0.995586	1	0.185487	0.628532	0.995612			
R1_11	241.699	0.647177	1	0.999245	1	0.0529042	0.647177	0.997927			
R1_12	30.2124	0.590595	1	0.9933	0.956522	1	0.590595	0.998247			
R1_13	7734.38	0.920394	1	0.988579	0.909091	0.661924	0.920394	0.995082			
R1_14	483.398	1	1	0.999844	--	--	1	0.991045			
R1_21	30937.5	0.630945	1	0.994394	1	0.942939	0.630945	0.942446			
R1_22	483.398	0.527602	1	0.998493	1	0.101617	0.527602	0.994032			
R1_23	15.1062	0.604667	1	0.989406	1	0.0153541	0.604667	0.997701			
R1_24	483.398	1	1	0.995351	1	0.995767	1	0.99782			
R1_31	241.699	0.687823	1	0.994739	1	0.998694	0.687823	0.995916			
R1_32	60.4248	0.545455	1	0.998386	1	1	0.545455	0.995772			
R1_33	0.118017	0.911321	1	0.998728	1	0.99726	0.911321	0.999676			
R1_41	7734.37	0.78125	1	0.996939	1	0.932387	0.78125	0.994695			
R1_42	7734.38	0.617479	1	0.981914	1	0.891942	0.617479	0.986842			
R1_43	120.85	0.541274	1	0.990613	0.973684	0.989699	0.541274	0.996335			
R1_51	1933.59	0.607103	1	0.995118	1	0.988762	0.607103	0.99446			
R1_52	0.944138	0.623188	1	0.979032	1	0.992218	0.623188	0.977858			
R1_53	120.85	0.998489	1	0.995792	1	0.726932	0.998489	0.996983			
R1_61	7.5531	0.676962	1	0.99811	1	0.00262261	0.676962	0.998768			
R1_62	3.77655	0.767383	1	0.992147	1	0.00112939	0.767383	0.999177			
R1_63	3867.19	0.669964	1	0.995761	1	0.964477	0.669964	0.995745			
R1_71	15468.8	0.740968	1	0.993449	1	0.964899	0.740968	0.987705			
R1_72	1.88828	0.600451	1	1	1	0.000569401	0.600451	1			
R1_73	1933.59	0.732371	1	0.989559	0.96	0.531614	0.732371	0.996583			
R1_81	120.85	0.747244	1	0.998029	1	0.994022	0.747244	0.996849			
R1_82	3867.19	0.587741	1	0.992549	1	0.995822	0.587741	0.991501			
R1_83	30.2124	0.645199	1	0.999418	1	0.999628	0.645199	0.99702			
R1_91	0.472069	0.685696	1	1	1	1	0.685696	1			
R1_92	241.699	0.781726	1	0.980355	1	0.995561	0.781726	0.995153			
R1_93	60.4248	0.625086	1	0.996684	1	0.998378	0.625086	0.996156			
R2_1	0.944138	0.98995	1	1	--	--	0.98995	1			
R2_105	0.944138	0.68	1	1	--	--	0.68	1			
R2_115	120.85	0.840131	1	0.989271	1	0.996256	0.840131	0.99549			
R2_116	1.88828	0.524582	1	0.996665	1	1	0.524582	0.998183			
R2_117	60.4248	0.710041	1	0.999708	1	0.999328	0.710041	0.997122			
R2_14	15468.8	0.719569	1	0.988161	1	0.737964	0.719569	0.991507			
R2_150	1933.59	0.835448	1	0.998619	1	0.673702	0.835448	0.991785			
R2_151	1.88828	0.565179	1	0.981308	0.85	0.00120631	0.565179	0.998454			
R2_152	30.2124	0.603368	1	0.998585	1	0.028801	0.603368	0.997981			
R2_153	0.944138	0.669927	1	0.981132	1	1	0.669927	0.999088			
R2_154	3867.19	0.855658	1	0.986231	1	0.753071	0.855658	0.994631			
R2_18	15468.8	0.628326	1	0.982418	1	0.932695	0.628326	0.986486			
R2_19	3867.19	0.811493	1	0.994275	1	0.395306	0.811493	0.998717			
R2_20	30.2124	0.732026	1	0.998159	1	0.998462	0.732026	0.998951			
R2_24	15.1062	0.586299	0.979592	0.987268	0.957447	0.764632	0.586299	0.998994			
R2_26	1933.59	0.916638	1	0.994996	1	0.995074	0.916638	0.997755			
R2_27	7.5531	0.750595	1	0.994545	1	1	0.750595	0.999208			
R2_28	0.472069	0.686747	1	0.996957	1	1	0.686747	0.979381			
R2_32	0.472069	0.671486	1	0.992126	1	1	0.671486	0.998171			

R2_33	0.0590086	0.90106	1	1	1	1	0.90106	1		
R2_37	0.236034	0.719239	1	1	1	1	0.719239	1		
R2_38	0.0590086	0.399143	1	0.984831	1	1	0.399143	0.998351		
R2_41	241.699	0.839171	1	0.991918	1	0.998755	0.839171	0.990299		
R2_42	0.236034	0.874031	1	1	1	1	0.874031	1		
R2_45	0.472069	0.464239	1	0.999817	1	0.998319	0.464239	0.999689		
R2_46	0.118017	0.70475	1	0.988748	1	1	0.70475	0.967396		
R2_47	120.85	0.887733	1	0.997391	1	0.998014	0.887733	0.998675		
R2_53	0.118017	0.396487	1	0.997205	1	0.997577	0.396487	0.999097		
R2_54	483.398	0.864703	1	0.983372	1	0.996267	0.864703	0.997191		
R2_55	30937.5	0.880804	1	0.987741	1	0.862818	0.880804	0.990647		
R2_57	7.5531	0.659591	1	0.996748	1	0.00525698	0.659591	0.998248		
R2_59	0.472069	0.583656	1	1	1	1	0.583656	1		
R2_6	483.398	0.702989	1	0.998334	1	0.994613	0.702989	0.995902		
R2_60	7.5531	0.604692	1	0.996744	1	0.00539659	0.604692	0.997069		
R2_63	966.797	0.884363	1	0.984499	1	0.985809	0.884363	0.997037		
R2_65	3.77655	0.995595	1	1	--	--	0.995595	1		
R2_66	30937.5	0.529254	1	0.999748	1	0.999958	0.529254	0.985015		
R2_67	3.77655	0.992352	1	1	1	1	0.992352	1		
R2_68	3.77655	0.707775	1	0.996954	1	1	0.707775	0.999684		
R2_7	966.797	0.760474	1	0.997273	1	0.999218	0.760474	0.993367		
R2_71	3.77655	0.69385	1	0.992081	1	0.992248	0.69385	0.997118		
R2_72	0.236034	0.338827		0.866667	0.985673	0.545455	1	0.338827	0.999124	
R2_73	1.88828	0.950398	1	0.991652	1	0.99652	0.950398	0.975023		
R2_76	0.0590086	0.477536	1	0.99809	1	1	0.477536	0.999242		

Sequin statistics for: A3

ID	Abundance (attomol/ul)	Covered	Sensitivity (Exon)	Specificity (Exon)	Sensitivity (Intron)	Spe
R1_101	15.1062 0.844212	1	0.999087	1 1 0.844212	0.99897	
R1_102	15.1062 0.723352	1	0.995112	1 0.0284201	0.723352	0.998065
R1_103	966.797 0.629086	1	0.995227	1 0.535702	0.629086	0.99518
R1_11	241.699 0.646505	1	0.998816	1 0.0505829	0.646505	0.997925
R1_12	30.2124 0.591978	1	0.993087	1 0.999141	0.591978	0.997669
R1_13	7734.38 0.920394	1	0.988092	0.909091 0.909266	0.920394	0.995082
R1_14	483.398 1 1 0.999779	-- --	1	0.995502		
R1_21	30937.5 0.630945	1	0.993913	1 0.951111	0.630945	0.941599
R1_22	483.398 0.528054	1	0.998712	1 0.201023	0.528054	0.994037
R1_23	15.1062 0.610589	1	0.987265	1 0.0338936	0.610589	0.997156
R1_24	483.398 1 1 0.995487	1	0.998898	1 0.99782		
R1_31	241.699 0.687823	1	0.994534	1 0.998714	0.687823	0.995916
R1_32	60.4248 0.544876	1	0.997818	1 1 0.544876	0.995767	
R1_33	0.118017 0.912504	1	0.997554	1 0.996416	0.912504	0.998706
R1_41	7734.37 0.78125 1	0.99667 1	0.999697	0.78125 0.996457		
R1_42	7734.38 0.617479	1	0.980701	1 0.897666	0.617479	0.985844
R1_43	120.85 0.540731	1	0.99053 0.973684	0.984815	0.540731	0.996331
R1_51	1933.59 0.607103	1	0.996042	1 0.992969	0.607103	0.993542
R1_52	0.944138 0.623951	1	0.989971	1 1 0.623951	0.969769	
R1_53	120.85 0.998489	1	0.998404	1 0.973515	0.998489	0.996983
R1_61	7.5531 0.709516	1	0.993926	1 1 0.709516	0.998825	
R1_62	3.77655 0.776233	1	1 1 1	0.776233	1	
R1_63	3867.19 0.669703	1	0.995554	1 0.974728	0.669703	0.995743
R1_71	15468.8 0.740968	1	0.993971	1 0.988434	0.740968	0.985685
R1_72	1.88828 0.604966	1	1 1 1	0.604966	1	
R1_73	1933.59 0.731743	1	0.983855	0.96 0.986432	0.731743	0.996864
R1_81	120.85 0.747638	1	0.996786	1 0.994027	0.747638	0.99685
R1_82	3867.19 0.587741	1	0.992415	1 0.997628	0.587741	0.993612
R1_83	30.2124 0.644427	1	0.997372	1 0.996722	0.644427	0.998208
R1_91	0.472069 0.684413	1	0.998495	1 1 0.684413	0.998129	
R1_92	241.699 0.778765	1	0.980597	1 0.995994	0.778765	0.995135
R1_93	60.4248 0.625086	1	0.995437	1 0.998834	0.625086	0.996703
R2_1	0.944138 0.994975	1	1 -- --	0.994975	1	
R2_105	0.944138 0.981333	1	0.979167	-- -- 0.981333	0.994595	
R2_115	120.85 0.837955	1	0.989482	1 0.997475	0.837955	0.923861
R2_116	1.88828 0.583771	1	0.988752	1 1 0.583771	0.997553	
R2_117	60.4248 0.709016	1	0.999618	1 0.99934 0.709016	0.9964	
R2_14	15468.8 0.719569	1	0.989328	1 0.838494	0.719569	0.991507
R2_150	1933.59 0.835832	1	0.997978	1 0.821556	0.835832	0.996334
R2_151	1.88828 0.589676	1	0.990974	1 0.00596157	0.589676	0.997779
R2_152	30.2124 0.603368	1	0.998327	1 0.0588556	0.603368	0.997981
R2_153	0.944138 0.685208	1	0.995346	1 0.983165	0.685208	0.998219
R2_154	3867.19 0.855658	1	0.986493	1 0.834231	0.855658	0.994631
R2_18	15468.8 0.628326	1	0.984271	1 0.935806	0.628326	0.986486
R2_19	3867.19 0.811493	1	0.994731	1 0.753652	0.811493	0.998574
R2_20	30.2124 0.733948	1	0.996812	1 0.99733 0.733948	0.996347	
R2_24	15.1062 0.586741	0.979592	0.990687	0.957447	0.842066	0.586741 0.998743
R2_26	1933.59 0.916982	1	0.995763	1 0.994951	0.916982	0.997942
R2_27	7.5531 0.755357	1	0.993405	1 0.999065	0.755357	0.998426
R2_28	0.472069 0.68988	1	0.999127	1 1 0.68988	0.980144	
R2_32	0.472069 0.671486	1	0.989034	1 1 0.671486	0.988678	

R2_33	0.0590086	0.971731	1	0.947368	1	1	0.971731	0.99278	
R2_37	0.236034	0.727623	1	0.993796	1	0.993171	0.727623	0.997825	
R2_38	0.0590086	0.399473	1	0.995508	1	1	0.399473	0.998353	
R2_41	241.699	0.839171	1	0.992037	1	0.998985	0.839171	0.968247	
R2_42	0.236034	0.885659	1	0.997419	1	1	0.885659	0.949709	
R2_45	0.472069	0.464528	1	0.997782	1	1	0.464528	0.998447	
R2_46	0.118017	0.719784	1	0.99254	1	1	0.719784	0.967273	
R2_47	120.85	0.888518	1	0.996762	1	0.996155	0.888518	0.998676	
R2_53	0.118017	0.397025	1	0.994321	1	0.994027	0.397025	0.997748	
R2_54	483.398	0.864703	1	0.982499	1	0.997465	0.864703	0.997446	
R2_55	30937.5	0.880804	1	0.988265	1	0.838564	0.880804	0.990647	
R2_57	7.5531	0.659205	1	0.99747	1	0.00678764	0.659205	0.99883	
R2_59	0.472069	0.596415	1	0.9968	1	0.998424	0.596415	0.999459	
R2_6	483.398	0.702025	1	0.995403	1	0.991333	0.702025	0.993179	
R2_60	7.5531	0.605759	1	0.995309	1	0.00940813	0.605759	0.997074	
R2_63	966.797	0.884801	1	0.985674	1	0.988104	0.884801	0.996547	
R2_65	3.77655	0.994493	1	0.997792	--	--	0.994493	0.998894	
R2_66	30937.5	0.529254	1	0.988763	1	0.999892	0.529254	0.986	
R2_67	3.77655	0.967495	1	1	1	1	0.967495	1	
R2_68	3.77655	0.717828	1	0.996747	1	0.998457	0.717828	0.999378	
R2_7	966.797	0.76132	1	0.99719	1	0.999558	0.76132	0.994472	
R2_71	3.77655	0.916444	1	0.993642	1	0.997036	0.916444	0.986331	
R2_72	0.236034	0.347439		0.866667	0.991036	0.727273	1	0.347439	0.997017
R2_73	1.88828	0.943572	1	0.985888	1	0.998646	0.943572	0.999759	
R2_76	0.0590086	0.477536	1	0.994867	1	1	0.477536	0.998485	

Sequin statistics for: B1

ID	Abundance (attomol/ul)	Covered	Sensitivity (Exon)	Specificity (Exon)	Sensitivity (Intron)	Spe
R1_101	15.1062 0.787641	1	0.996774	1 1 0.787641	0.998896	
R1_102	15.1062 0.721248	1	0.98946 1	0.108223 0.721248	0.999514	
R1_103	966.797 0.627978	1	0.992978	1 0.959322 0.627978	0.996484	
R1_11	241.699 0.644489	1	0.989534	1 1 0.644489	0.997919	
R1_12	30.2124 0.569848	1	0.992637	1 0.991467 0.569848	0.998788	
R1_13	7734.38 0.920394	1	0.988299	0.909091 0.983353 0.920394	0.995082	
R1_14	483.398 0.996988	1	0.999917	-- -- 0.996988 0.996988		
R1_21	30937.5 0.630945	1	0.993465	1 0.902076 0.630945	0.941599	
R1_22	483.398 0.526697	1	0.999028	1 0.0033303 0.526697	0.997429	
R1_23	15.1062 0.609892	1	0.983464	1 0.00570884 0.609892	0.997153	
R1_24	483.398 0.999345	1	0.995356	1 0.998841 0.999345	0.998472	
R1_31	241.699 0.688764	1	0.99394 1	0.997605 0.688764	0.992547	
R1_32	60.4248 0.541401	1	1 1 1	0.541401 1		
R1_33	0.118017 0.88324	1	0.997831	1 1 0.88324	0.999331	
R1_41	7734.37 0.78125 1	0.99979 1	0.997007	0.78125 0.995575		
R1_42	7734.38 0.617479	1	0.989977	1 0.975927 0.617479	0.990854	
R1_43	120.85 0.541999	1	0.986484	0.973684 0.348855 0.541999	0.996339	
R1_51	1933.59 0.603157	1	0.995454	1 0.855858 0.603157	0.995349	
R1_52	0.944138 0.622807	1	0.994252	1 1 0.622807	0.998166	
R1_53	120.85 0.998993	1	0.997143	1 0.718094 0.998993	0.996985	
R1_61	7.5531 0.718698	1	1 1 1	0.718698 1		
R1_62	3.77655 0.697219	1	1 1 1	0.697219 1		
R1_63	3867.19 0.670484	1	0.994539	1 0.857561 0.670484	0.995748	
R1_71	15468.8 0.740968	1	0.99358 1	0.848788 0.740968	0.986694	
R1_72	1.88828 0.544921	1	1 1 1	0.544921 1		
R1_73	1933.59 0.731115	1	0.991175	0.96 0.993206 0.731115	0.997431	
R1_81	120.85 0.747244	1	0.996891	1 0.991853 0.747244	0.996325	
R1_82	3867.19 0.587741	1	0.999352	1 0.987979 0.587741	0.992908	
R1_83	30.2124 0.647513	1	0.998826	1 0.998681 0.647513	0.998216	
R1_91	0.472069 0.66517	1	1 1 1	0.66517 1		
R1_92	241.699 0.778765	1	0.980861	1 0.995714 0.778765	0.995135	
R1_93	60.4248 0.625086	1	0.996681	1 0.99831 0.625086	0.996156	
R2_1	0.944138 0.994975	1	1 1 -- --	0.994975 1		
R2_105	0.944138 0.946667	1	0.992857	-- -- 0.946667	0.994398	
R2_115	120.85 0.842849	1	0.991243	1 0.99245 0.842849	0.923719	
R2_116	1.88828 0.573747	1	0.984551	1 1 0.573747	0.999169	
R2_117	60.4248 0.71209 1	0.998192 1	0.997355	0.71209 0.994989		
R2_14	15468.8 0.719569	1	0.984461	1 0.904376 0.719569	0.991507	
R2_150	1933.59 0.831603	1	0.999201	1 0.0928247 0.831603	0.997694	
R2_151	1.88828 0.56343 1	1 1	0.000648549	0.56343 1		
R2_152	30.2124 0.606541	1	0.99787 1	0.0104632 0.606541	0.997992	
R2_153	0.944138 0.680318	1	0.991786	1 1 0.680318	0.988016	
R2_154	3867.19 0.853349	1	0.98975 1	0.345297 0.853349	0.994616	
R2_18	15468.8 0.628326	1	0.98623 1	0.852354 0.628326	0.986486	
R2_19	3867.19 0.811146	1	0.99566 1	0.940862 0.811146	0.999001	
R2_20	30.2124 0.733948	1	0.998092	1 0.995501 0.733948	0.997388	
R2_24	15.1062 0.586003	0.979592	0.990261	0.957447 0.846247 0.586003	0.998239	
R2_26	1933.59 0.916982	1	0.992369	1 0.957098 0.916982	0.997569	
R2_27	7.5531 0.752976	1	0.992291	1 1 0.752976	0.99921	
R2_28	0.472069 0.689157	1	1 1 1	1 0.689157 1		
R2_32	0.472069 0.66964	1	0.996432	1 1 0.66964	0.998624	

R2_33	0.0590086	0.416961	0.5	1	0	nan	0.416961	1		
R2_37	0.236034	0.694992	1	0.994852	1	0.981481	0.694992	0.999348		
R2_38	0.0590086	0.379038	1	0.992625	1	1	0.379038	0.997398		
R2_41	241.699	0.837026	1	0.993443	1	0.9981	0.837026	0.990694		
R2_42	0.236034	0.874031	1	1	1	1	0.874031	1		
R2_45	0.472069	0.462216	1	0.996477	1	1	0.462216	0.998439		
R2_46	0.118017	0.702646	1	1	1	1	0.702646	1		
R2_47	120.85	0.888911	1	0.996626	1	0.995795	0.888911	0.998237		
R2_53	0.118017	0.387345	1	0.995233	1	1	0.387345	0.999075		
R2_54	483.398	0.864703	1	0.985219	1	0.996922	0.864703	0.997701		
R2_55	30937.5	0.880804	1	0.983178	1	0.99546	0.880804	0.990647		
R2_57	7.5531	0.625241	1	1	0.941176	1	0.625241	1		
R2_59	0.472069	0.553456	1	0.993644	1	0.984615	0.553456	0.999708		
R2_6	483.398	0.702989	1	0.996895	1	0.999525	0.702989	0.990489		
R2_60	7.5531	0.607892	1	0.997855	1	0.998146	0.607892	0.997085		
R2_63	966.797	0.886991	1	0.998694	1	0.999702	0.886991	0.997046		
R2_65	3.77655	0.993392	1	1	--	--	0.993392	1		
R2_66	30937.5	0.528717	1	0.99979	1	0.999945	0.528717	0.987964		
R2_67	3.77655	0.782027	1	1	1	1	0.782027	1		
R2_68	3.77655	0.568811	0.846154	0.996553	0.833333	0.998019	0.568811	0.998823		
R2_7	966.797	0.76132	1	0.996266	1	0.999624	0.76132	0.994472		
R2_71	3.77655	0.77139	1	0.977113	1	0.975684	0.77139	0.99827		
R2_72	0.236034	0.313586	0.866667	0.985308	0.636364	1	0.313586	0.99811		
R2_73	1.88828	0.921274	1	0.989642	0.952381	0.997619	0.921274	0.999506		
R2_76	0.0590086	0.463043	1	0.996114	1	1	0.463043	0.999218		

Sequin statistics for: B2

ID	Abundance (attomol/ul)			Covered				Sensitivity (Exon)		Specificity (Exon)		Sensitivity (Intron)		Spe
R1_101	15.1062	0.832898		1	1	1	1	0.832898		1				
R1_102	15.1062	0.698107		1				0.985276	1	0.244275	0.698107	0.999498		
R1_103	966.797	0.628532		1				0.993265	1	0.970835	0.628532	0.996924		
R1_11	241.699	0.644489		1	1	1	1	0.644489		1				
R1_12	30.2124	0.590941		1				0.995051	1	1	0.590941	0.998831		
R1_13	7734.38	0.920394		1				0.987888	0.909091	0.995075	0.920394	0.995082		
R1_14	483.398	1	1	0.999876	--	--	1	0.995502						
R1_21	30937.5	0.630945		1				0.99394	1	0.839282	0.630945	0.942446		
R1_22	483.398	0.527149		1				0.999506	1	0.0015311	0.527149	0.999142		
R1_23	15.1062	0.609892		1				0.986752	1	0.00298525	0.609892	0.997721		
R1_24	483.398	0.999563		1				0.995545	1	0.998693	0.999563	0.998037		
R1_31	241.699	0.688764		1				0.992008	1	0.997879	0.688764	0.99322		
R1_32	60.4248	0.544296		1	1	1	1	0.544296		1				
R1_33	0.118017	0.896837		1				0.983193	1	1	0.896837	0.999341		
R1_41	7734.37	0.78125	1	0.999876			1	0.874219		0.78125	0.995575			
R1_42	7734.38	0.617479		1				0.990803	1	0.985162	0.617479	0.993884		
R1_43	120.85	0.541636		1				0.985438	0.973684	0.803818	0.541636	0.996005		
R1_51	1933.59	0.604284		1				0.996225	1	0.0829933	0.604284	0.997209		
R1_52	0.944138	0.622807		1				0.994399	1	1	0.622807	0.997557		
R1_53	120.85	0.998489		1				0.997344	1	0.0360915	0.998489	0.996482		
R1_61	7.5531	0.687813		1				0.986755	1	0.959677	0.687813	0.998788		
R1_62	3.77655	0.686473		1	1	0.8	0.8	0.686473		1				
R1_63	3867.19	0.670484		1				0.993684	1	0.877702	0.670484	0.996133		
R1_71	15468.8	0.740968		1				0.993425	1	0.997341	0.740968	0.984678		
R1_72	1.88828	0.600903		1	1	1	0.8	0.600903		1				
R1_73	1933.59	0.731115		1				0.991099	0.96	0.985267	0.731115	0.997716		
R1_81	120.85	0.748031		1				0.997639	1	0.992314	0.748031	0.996329		
R1_82	3867.19	0.587741		1				0.99715	1	0.988495	0.587741	0.9908		
R1_83	30.2124	0.647127		1				0.998647	1	0.99802	0.647127	0.998215		
R1_91	0.472069	0.668377		1	1	1	1	0.668377		1				
R1_92	241.699	0.778342		1				0.983037	1	0.996622	0.778342	0.994595		
R1_93	60.4248	0.625086		1				0.996003	1	0.996222	0.625086	0.996156		
R2_1	0.944138	0.99397	1	1	--	--		0.99397	1					
R2_105	0.944138	0.981333		1				0.954887	--	--	0.981333	0.994595		
R2_115	120.85	0.837412		1				0.99107	1	0.992674	0.837412	0.923261		
R2_116	1.88828	0.582339		1				0.99	1	1	0.582339	0.997547		
R2_117	60.4248	0.711066		1				0.99903	1	0.997962	0.711066	0.996411		
R2_14	15468.8	0.719569		1				0.984606	1	0.928543	0.719569	0.991507		
R2_150	1933.59	0.82699	1	0.998974			1	0.046194		0.82699	0.993075			
R2_151	1.88828	0.549431		1				0.996042	1	0.000351715	0.549431	0.996035		
R2_152	30.2124	0.603368		1				0.998164	1	0.00536784	0.603368	0.999192		
R2_153	0.944138	0.672983		1	1	1	1	0.672983		1				
R2_154	3867.19	0.855658		1				0.988501	1	0.339719	0.855658	0.994631		
R2_18	15468.8	0.628326		1				0.984501	1	0.951897	0.628326	0.986486		
R2_19	3867.19	0.811146		1				0.996182	1	0.957324	0.811146	0.999001		
R2_20	30.2124	0.733564		1				0.997507	1	0.994503	0.733564	0.997386		
R2_24	15.1062	0.585856		0.979592				0.989461	0.957447	0.828288	0.585856	0.998239		
R2_26	1933.59	0.916982		1				0.99228	1	0.640148	0.916982	0.997569		
R2_27	7.5531	0.748512		1				0.981896	1	1	0.748512	0.999205		
R2_28	0.472069	0.687711		1	1	1	1	0.687711		1				
R2_32	0.472069	0.669948		1				0.993046	1	1	0.669948	0.998624		

R2_33	0.0590086	0.95053	1	1	1	1	0.95053	1			
R2_37	0.236034	0.706322	1	0.98032	1	0.981481	0.706322	0.998718			
R2_38	0.0590086	0.380026	1	0.97554	1	1	0.380026	0.998268			
R2_41	241.699	0.836669	1	0.991694	1	0.998627	0.836669	0.995746			
R2_42	0.236034	0.851163	1	0.997821	1	1	0.851163	0.999545			
R2_45	0.472069	0.461061	1	0.996591	1	0.995166	0.461061	0.999061			
R2_46	0.118017	0.694227	1	1	1	1	0.694227	1			
R2_47	120.85	0.888518	1	0.996794	1	0.975142	0.888518	0.998456			
R2_53	0.118017	0.39111	1	0.999066	1	1	0.39111	0.999542			
R2_54	483.398	0.864703	1	0.986481	1	0.997388	0.864703	0.997956			
R2_55	30937.5	0.880804	1	0.987022	1	0.998648	0.880804	0.99142			
R2_57	7.5531	0.624855	1	0.993583	0.941176	1	0.624855	0.998766			
R2_59	0.472069	0.559432	1	1	1	1	0.559432	1			
R2_6	483.398	0.702025	1	0.995921	1	0.998458	0.702025	0.990476			
R2_60	7.5531	0.607892	1	0.997107	1	0.996965	0.607892	0.995923			
R2_63	966.797	0.886991	1	0.998679	1	0.999706	0.886991	0.997046			
R2_65	3.77655	0.994493	1	0.984615	--	--	0.994493	0.99779			
R2_66	30937.5	0.528717	1	0.999833	1	1	0.528717	0.987964			
R2_67	3.77655	0.944551	1	1	1	1	0.944551	1			
R2_68	3.77655	0.568811	0.846154	0.995703	0.833333	0.996352	0.568811	0.998431			
R2_7	966.797	0.760474	1	0.994988	1	0.999414	0.760474	0.993367			
R2_71	3.77655	0.676471	1	0.99635	1	1	0.676471	0.999013			
R2_72	0.236034	0.337491	0.866667	0.989529	0.727273	1	0.337491	0.998682			
R2_73	1.88828	0.944937	1	0.986542	1	0.998453	0.944937	0.999519			
R2_76	0.0590086	0.470652	1	1	1	1	0.470652	1			

Sequin statistics for: B3

ID	Abundance (attomol/ul)	Covered	Sensitivity (Exon)	Specificity (Exon)	Sensitivity (Intron)	Spe
R1_101	15.1062 0.841601	1	0.99403 1 1	0.841601	0.998967	
R1_102	15.1062 0.717742	1	0.980746	1	0.0221654	0.717742 0.999024
R1_103	966.797 0.627978	1	0.992148	1	0.835009	0.627978 0.996922
R1_11	241.699 0.645161	1	0.999461	1 1	0.645161	0.998959
R1_12	30.2124 0.590595	1	0.991325	1	0.99781 0.590595	0.99883
R1_13	7734.38 0.920394	1	0.988254	0.909091	0.987014	0.920394 0.995898
R1_14	483.398 1 1	0.999656	-- --	1	0.989568	
R1_21	30937.5 0.630945	1	0.993922	1	0.822178	0.630945 0.942446
R1_22	483.398 0.525792	1	1 1	0.00123868	0.525792	1
R1_23	15.1062 0.60815 1	0.98571	1 1	0.00229028	0.60815	0.997714
R1_24	483.398 0.999563	1	0.995155	1	0.998935	0.999563 0.997819
R1_31	241.699 0.689234	1	0.991529	1	0.983869	0.689234 0.991881
R1_32	60.4248 0.544296	1	1 1 1	0.544296	1	
R1_33	0.118017 0.890038	1	0.996205	1 1	0.890038	0.999005
R1_41	7734.37 0.78125 1	0.999946	1	0.996632	0.78125	0.998225
R1_42	7734.38 0.617479	1	0.991638	1	0.949859	0.617479 0.992872
R1_43	120.85 0.541818	1	0.986158	0.973684	0.604672	0.541818 0.996007
R1_51	1933.59 0.60372 1	0.995606	1	0.831258	0.60372	0.996279
R1_52	0.944138 0.62357	1	0.993546	1	0.999107	0.62357 0.997559
R1_53	120.85 0.998489	1	0.99506	1	0.72554	0.998489 0.995982
R1_61	7.5531 0.686144	1	1 1	0.911765	0.686144	1
R1_62	3.77655 0.716182	1	1 1	0.842105	0.716182	1
R1_63	3867.19 0.670484	1	0.9934	1	0.879043	0.670484 0.995363
R1_71	15468.8 0.740968	1	0.991256	1	0.984353	0.740968 0.987705
R1_72	1.88828 0.586456	1	1 1	0.666667	0.586456	1
R1_73	1933.59 0.731325	1	0.99045	0.96	0.991894	0.731325 0.997432
R1_81	120.85 0.749606	1	0.997294	1	0.989216	0.749606 0.996337
R1_82	3867.19 0.587741	1	0.995803	1	0.987377	0.587741 0.991501
R1_83	30.2124 0.644813	1	0.998136	1	0.995882	0.644813 0.998209
R1_91	0.472069 0.679282	1	1 1 1	1	0.679282	1
R1_92	241.699 0.77665 1	0.97995	1	0.996986	0.77665	0.995122
R1_93	60.4248 0.625086	1	0.996497	1	0.998423	0.625086 0.996156
R2_1	0.944138 0.988945	1	1 --	--	0.988945	1
R2_105	0.944138 0.984	1	0.983471	-- --	0.984	0.994609
R2_115	120.85 0.842849	1	0.989942	1	0.993289	0.842849 0.92427
R2_116	1.88828 0.521718	1	0.996266	1	1	0.521718 0.998174
R2_117	60.4248 0.711066	1	0.999352	1	0.997792	0.711066 0.997126
R2_14	15468.8 0.719569	1	0.984373	1	0.944812	0.719569 0.991507
R2_150	1933.59 0.833141	1	0.999017	1	0.0395501	0.833141 0.997698
R2_151	1.88828 0.584864	1	0.997917	1	0.000290904	0.584864 0.999253
R2_152	30.2124 0.603856	1	0.997058	1	0.00392735	0.603856 0.998386
R2_153	0.944138 0.668093	1	0.997268	0.95	1	0.668093 0.99863
R2_154	3867.19 0.855658	1	0.991371	1	0.158151	0.855658 0.994631
R2_18	15468.8 0.628326	1	0.985099	1	0.89836	0.628326 0.986486
R2_19	3867.19 0.811146	1	0.996027	1	0.769173	0.811146 0.998716
R2_20	30.2124 0.732795	1	0.998371	1	0.998409	0.732795 0.997906
R2_24	15.1062 0.586151	0.979592	0.988855	0.957447	0.904814	0.586151 0.99824
R2_26	1933.59 0.916982	1	0.992311	1	0.984013	0.916982 0.997569
R2_27	7.5531 0.749702	1	0.994169	1	1	0.749702 0.99881
R2_28	0.472069 0.686747	1	1 1 1	1	0.686747	1
R2_32	0.472069 0.667795	1	0.990257	1	1	0.667795 0.997244

R2_33	0.0590086	0.40636	0.5	1	0	0	0.40636	1			
R2_37	0.236034	0.711761		1	0.994798		1	1	0.711761	0.999682	
R2_38	0.0590086	0.387607		1	0.9946	1	1	0.387607	0.997455		
R2_41	241.699	0.837384	1	0.991778		1	0.985197	0.837384	0.989861		
R2_42	0.236034	0.85814	1	1	1	1	0.85814	1			
R2_45	0.472069	0.454703		1	0.999465		1	0.98533	0.454703	0.999682	
R2_46	0.118017	0.683103		1	1	1	1	0.683103	1		
R2_47	120.85	0.888911	1	0.996685		1	0.995092	0.888911	0.998237		
R2_53	0.118017	0.385374		1	0.998685		1	1	0.385374	0.999535	
R2_54	483.398	0.864703	1	0.982419		1	0.996371	0.864703	0.997446		
R2_55	30937.5	0.880804	1	0.989737		1	0.973753	0.880804	0.989875		
R2_57	7.5531	0.639907	1	0.99214	0.941176		1	0.639907	0.997593		
R2_59	0.472069	0.562177		1	1	1	1	0.562177	1		
R2_6	483.398	0.702025	1	0.9962	1	1	0.702025	0.991826			
R2_60	7.5531	0.607892	1	0.996822		1	0.998606	0.607892	0.996503		
R2_63	966.797	0.886991	1	0.998578		1	1	0.886991	0.996555		
R2_65	3.77655	0.995595	1	1	--	--	0.995595	1			
R2_66	30937.5	0.527107	1	0.999792		1	0.999952	0.527107	0.986935		
R2_67	3.77655	0.804971	1	1	1	1	0.804971	1			
R2_68	3.77655	0.597632		0.923077		0.995682	0.875	0.997295	0.597632	0.99888	
R2_7	966.797	0.76132	1	0.997063		1	0.99982	0.76132	0.993374		
R2_71	3.77655	0.679813	1	0.998536		1	1	0.679813	0.999018		
R2_72	0.236034	0.300965		0.866667		0.993569	0.454545	1	0.300965	0.999014	
R2_73	1.88828	0.950398	1	0.991451		1	0.997839	0.950398	0.999521		
R2_76	0.0590086	0.477536		1	0.990426		1	1	0.477536	0.999242	