

Anaquin TransQuin Report

Read Alignment

Summary for dataset: K_RMXA1v2.accepted_hits.sorted.bam

Unmapped: 0 reads
Experiment: 36484961 (76.13%) reads
Synthetic: 11440146 (23.87%) reads

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

Query: 84739030 exons
Query: 27056077 introns
Query: 153438 bases

Dilution: 0.238709

*** 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: 0.997479
Specificity: 0.984404
Detection: 0.0590086 (R2_33)

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

Sensitivity: 0.993191
Specificity: 1
Detection: 0.0590086 (R2_33)

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

Sensitivity: 0.703341
Specificity: 1
Detection: 0.0590086 (R2_33)

Transcriptome Assembly

Summary for dataset: transcripts.gtf

Experiment: 1897 features

Synthetic: 799 features

Reference: 162 exons

Reference: 1028 introns

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

*** The fuzzy level is 10 nucleotides.

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

Sensitivity: 0.547018 (0.566514)

Specificity: 0.952096 (0.986028)

Detection: 0.015736 (R2_72_1)

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

Sensitivity: 0.521164 (0.52381)

Specificity: 0.987469 (0.992481)

Detection: 0.015736 (R2_72_1)

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

Sensitivity: 0.570883

Specificity: 0.906859

Detection: 0.472069 (R2_28)

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

Sensitivity: 0.394904 (0.414013)

Specificity: 0.681319 (0.714286)

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

Sensitivity: 0.393939 (0.393939)

Specificity: 0.555556 (0.555556)

Missing exons: 385/872 (0.441514)

Missing introns: 324/756 (0.428571)

Novel exons: 23/501 (0.0459082)

Novel introns: 1/399 (0.00250627)

Expression Analysis (Genes)

Summary for dataset: stringout_sub0.01_guided_B/stringout_sub0.01_guided_genes.txt

Experiment: 601 genes

Synthetic: 68 genes

Reference: 76 genes

Detected: 68 genes

*** Detection Limits

Absolute: 0.0590086 (attomol/ul) (R2_33)

Correlation: 0.951391

Slope: 5.17238

R2: 0.905145

F-statistic: 610.716

P-value: 0

SSM: 8.78529e+10, DF: 1

SSE: 9.20654e+09, DF: 64

SST: 9.70595e+10, DF: 65

*** The following statistics are computed on the log2 scale.

*** Eg: If the data points are (1,1), (2,2). The correlation will

*** be computed on (log2(1), log2(1)), (log2(2), log2(2))

Correlation: 0.960584

Slope: 0.944504

R2: 0.922722

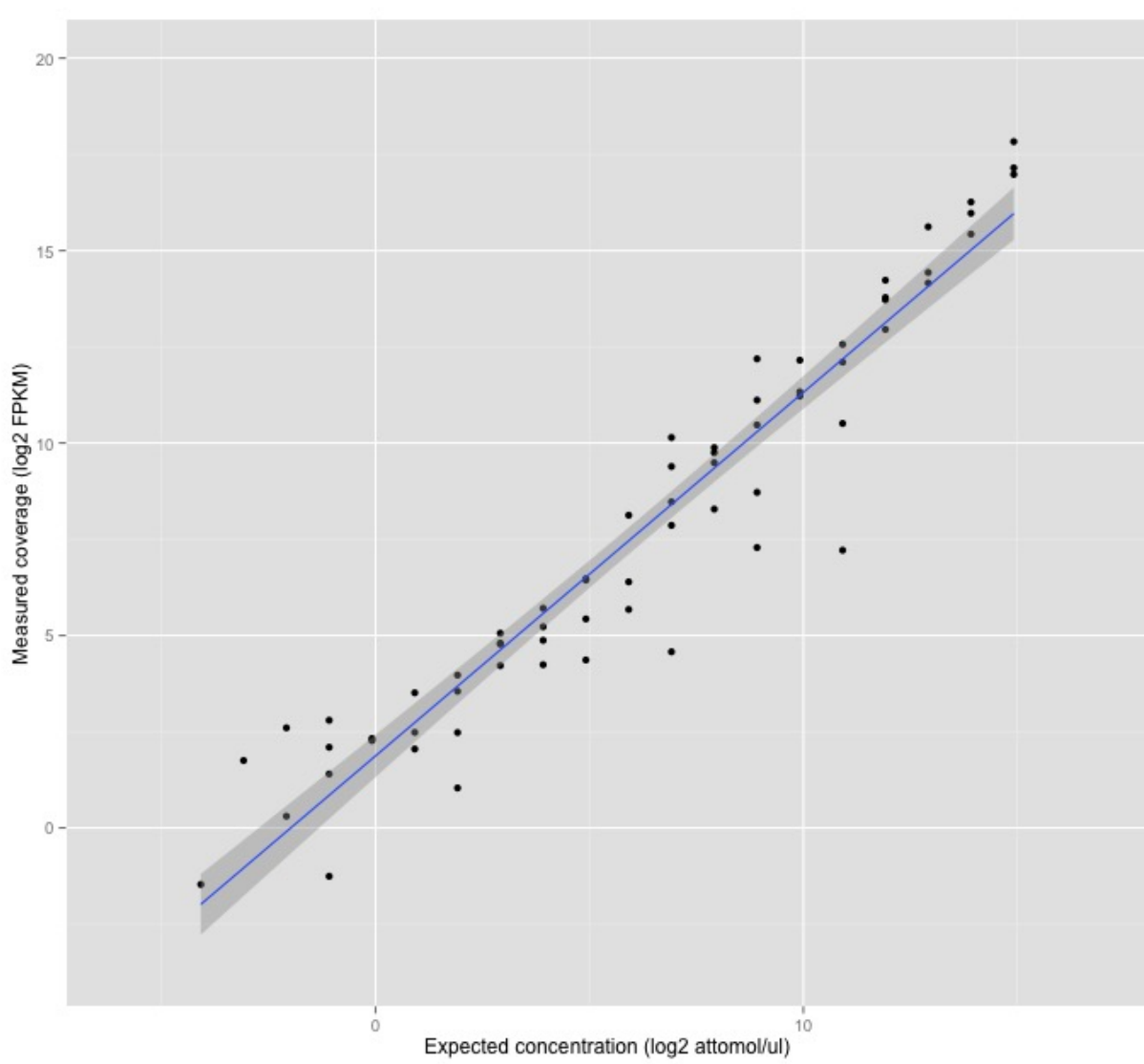
F-statistic: 764.178

P-value: 0

SSM: 1518.12, DF: 1

SSE: 127.143, DF: 64

SST: 1645.26, DF: 65



Expression Analysis (Isoforms)

Summary for dataset: stringout_sub0.01_guided_B/t_data.ctab

Experiment: 0 isoforms
Synthetic: 164 isoforms

Reference: 162 isoforms
Detected: 162 isoforms

*** Detection Limits

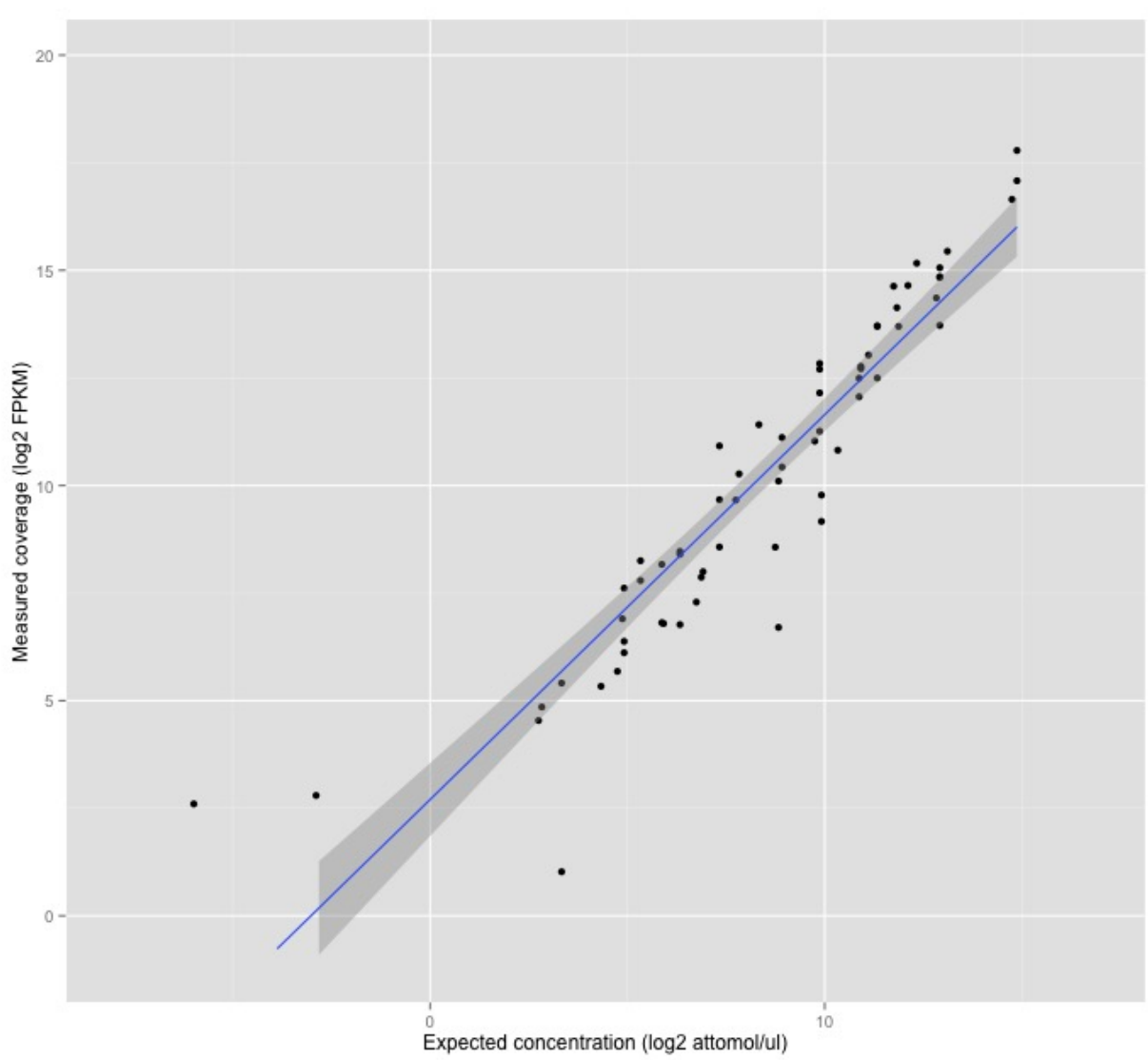
Absolute: 0.00393391 (attomol/ul) (R2_38_1)

Correlation: 0.945312
Slope: 5.26846
R2: 0.893614
F-statistic: 520.784
P-value: 0
SSM: 7.01119e+10, DF: 1
SSE: 8.34691e+09, DF: 62
SST: 7.84588e+10, DF: 63

*** The following statistics are computed on the log2 scale.

*** Eg: If the data points are (1,1), (2,2). The correlation will
*** be computed on (log2(1), log2(1)), (log2(2), log2(2))

Correlation: 0.927843
Slope: 0.894364
R2: 0.860892
F-statistic: 383.697
P-value: 0
SSM: 783.229, DF: 1
SSE: 126.559, DF: 62
SST: 909.787, DF: 63



Differential Analysis