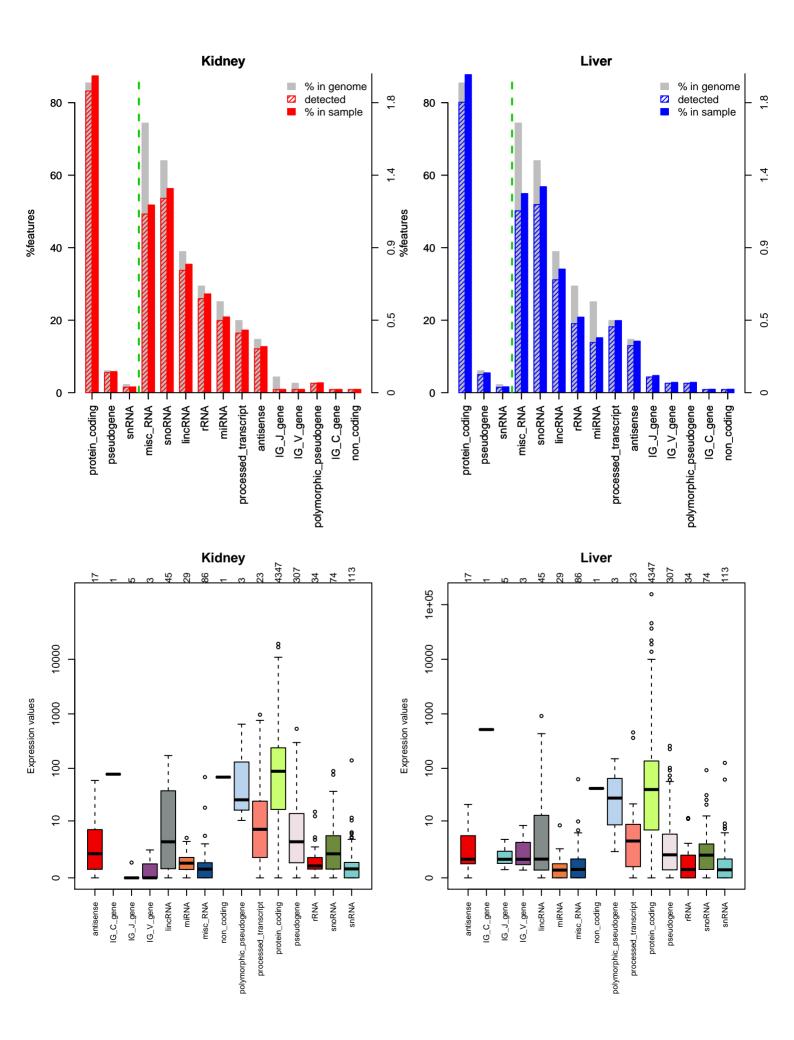
Quality Control of Expression Data

Generated by NOISeq on 08 Nov 2013, 15:53:55

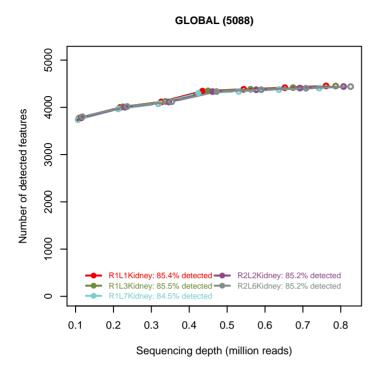
Content

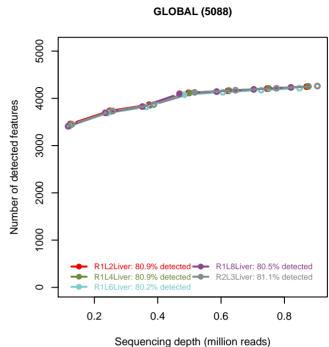
Plot	Description		
Biotype detection	Number of genes per biotype in the genome, and detected (counts > 0) in the sample/condition.		
Biotype expression	Distribution of gene counts per million per biotype in sample/condition (only genes with counts > 0).		
Saturation	Number of detected genes (counts > 0) per sample across different sequencing depths		
Expression boxplot	Distribution of gene counts per million (all biotypes) in each sample/condition		
Expression barplot	Percentage of genes with >0, >1, >2, >5 or >10 counts per million in each sample/condition.		
Length bias	Mean gene expression per each length bin. Fitted curve and diagnostic test.		
GC content bias	Mean gene expression per each GC content bin. Fitted curve and diagnostic test.		
RNA composition bias	Density plots of log fold changes (M) between pairs of samples. Confidence intervals for the median of M values.		

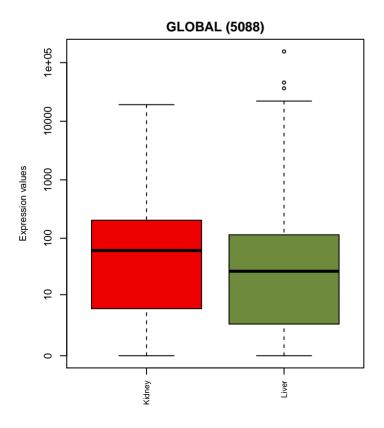
Biotype detection per condition

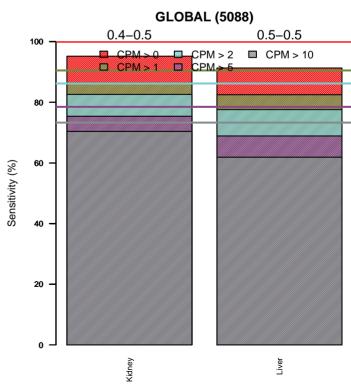


Sequencing depth & Expression quantification







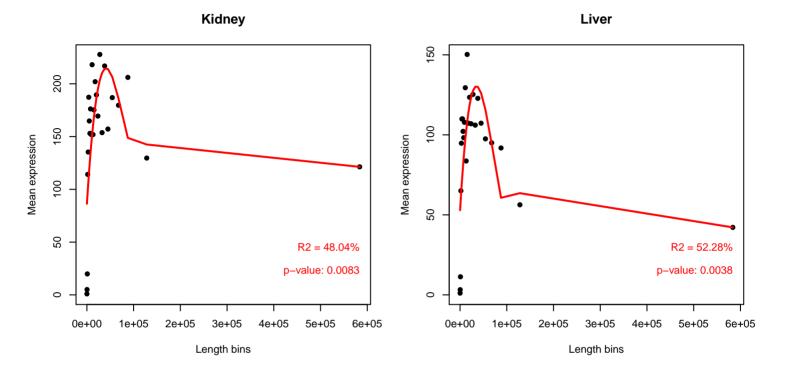


Sequencing bias detection

Diagnostic plot for feature length bias

WARNING. At least one of the model p-values was lower than 0.05, but R2 < 70% for at least one condition.

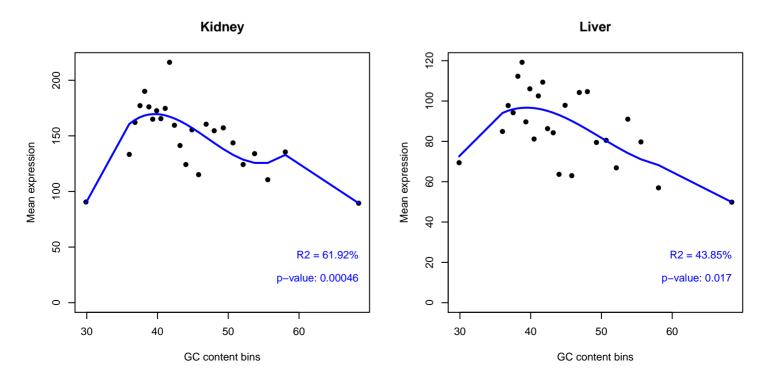
Normalization for correcting length bias could be advisable. Plese check in the plots below the strength of the relationship between length and expression.



Diagnostic plot for GC content bias

WARNING. At least one of the model p-values was lower than 0.05, but R2 < 70% for at least one condition.

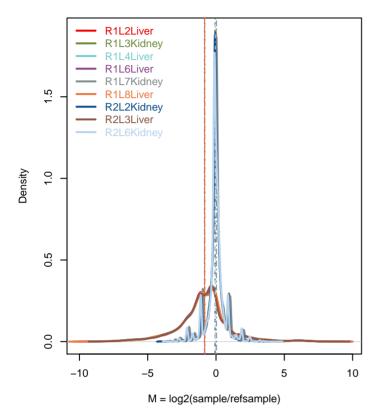
Normalization for correcting GC content bias could be advisable. Plese check in the plots below the strength of the relationship between GC content and expression.



Diagnostic plot for differences in RNA composition

FAILED. There is a pair of samples with significantly different RNA composition Normalization for correcting this bias is required.

Reference sample: R1L1Kidney



Confidence intervals for median of M values

Sample	0.28	% 99.72%	Diagnostic Tes
R1L2Liver	-0.8878	-0.7563	FAILED
R1L3Kidney	-0.0472	-0.0472	FAILED
R1L4Liver	-0.8796	-0.7572	FAILED
R1L6Liver	-0.8994	-0.7651	FAILED
R1L7Kidney	0.0348	0.0348	FAILED
R1L8Liver	-0.8919	-0.76	FAILED
R2L2Kidney	-0.085	-0.0482	FAILED
R2L3Liver	-0.8772	-0.7607	FAILED
R2L6Kidney	-0.0677	-0.0377	FAILED