MAGeCK Comparison Report

Wei Li

March 25, 2018

Contents

1 Summary

The statistics of comparisons is as indicated in the following table.

	Comparison	Genes	Selection	FDR1%	FDR5%	FDR25%
1	HL60.final,KBM7.final_vs_HL60.initial,KBM7.initial neg.	100	negative	0	2	9
2	HL60.final,KBM7.final_vs_HL60.initial,KBM7.initial pos.	100	positive	0	0	1

Table 1: Summary of comparisons

The meanings of the columns are as follows.

- **Comparison**: The label for comparisons;

- **Genes**: The number of genes in the library;

- **Selection**: The direction of selection, either positive selection or negative selection;

- **FDR1%**: The number of genes with FDR < 1%;

- **FDR5%**: The number of genes with FDR < 5%;

- **FDR25%**: The number of genes with FDR < 25%;

The following figures show:

- Individual sgRNA read counts of selected genes in selected samples;

- The distribution of RRA scores and p values of all genes; and

- The RRA scores and p values of selected genes.

2 Comparison results of HL60.final,KBM7.final vs HL60.initial,KBM7.initial neg.
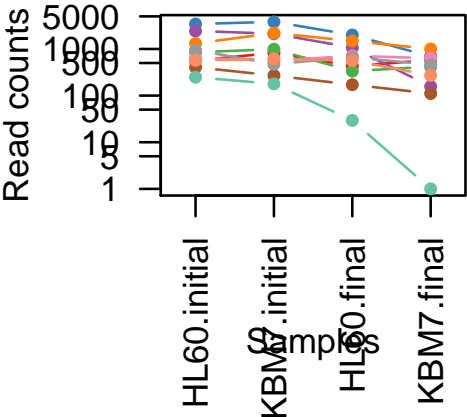
The following figure shows the distribution of RRA score in the comparison HL60.final,KBM7.final vs HL60.initial,KBM7.initial neg., and the RRA scores of 10 genes.

Distribution of RRA scores in HL60.final,KBM7.final_vs_HL60.initial,KBM7.initia
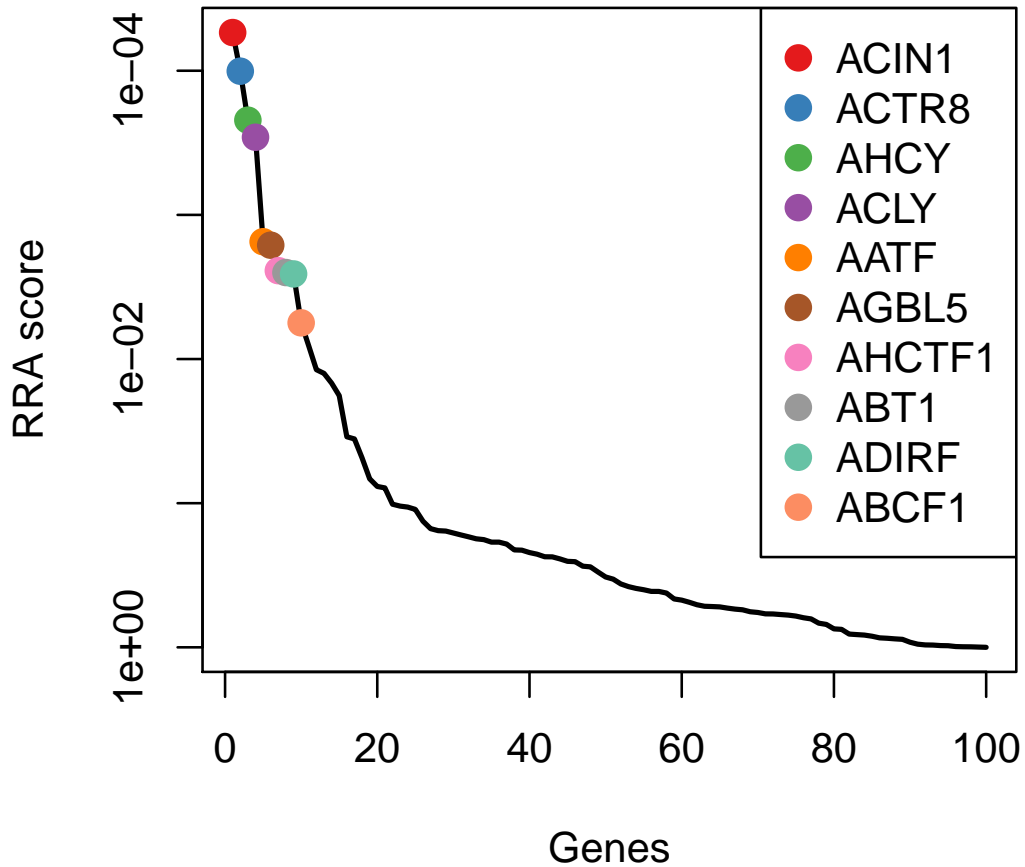
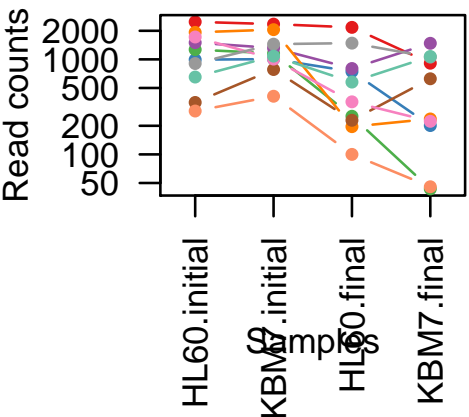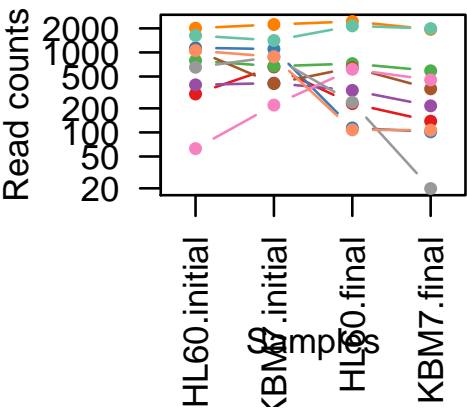The following figures show the distribution of sgRNA read counts (normalized) of selected genes in selected samples.
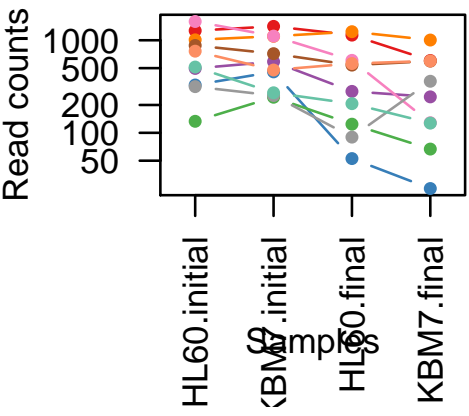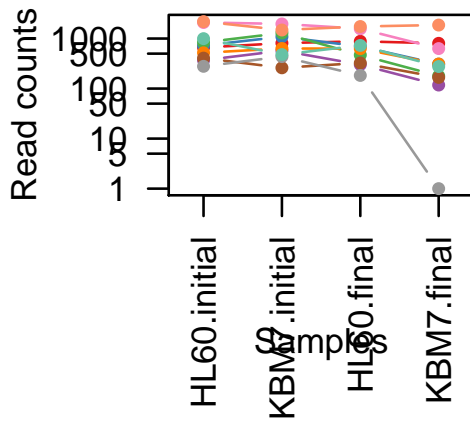
sgRNAs in ACIN1
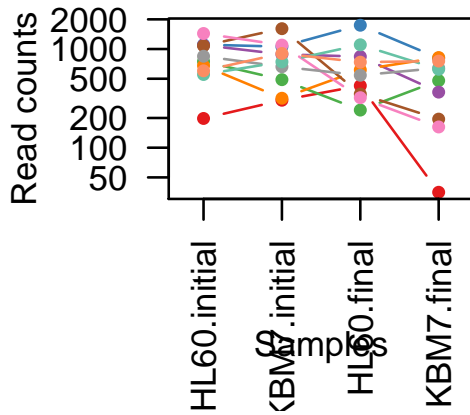

sgRNAs in ACTR8
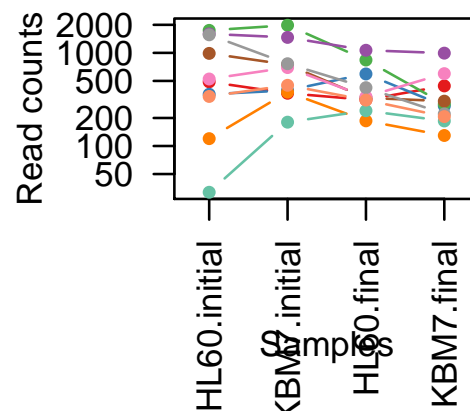

sgRNAs in AHCY
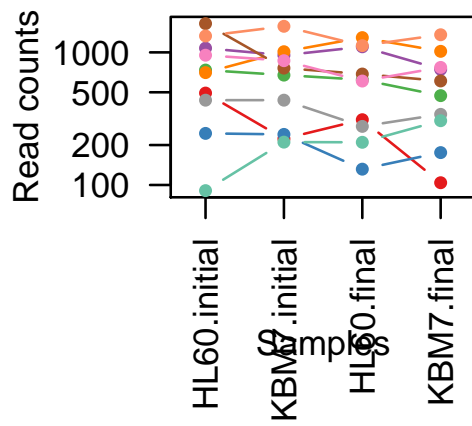

sgRNAs in ACLY
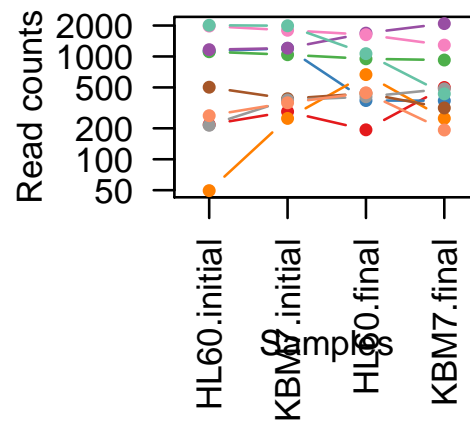
sgRNAs in AATF

sgRNAs in AGBL5
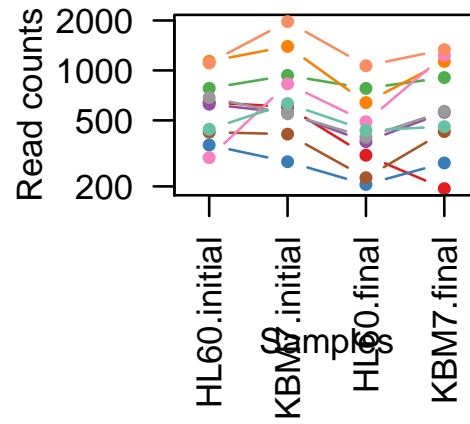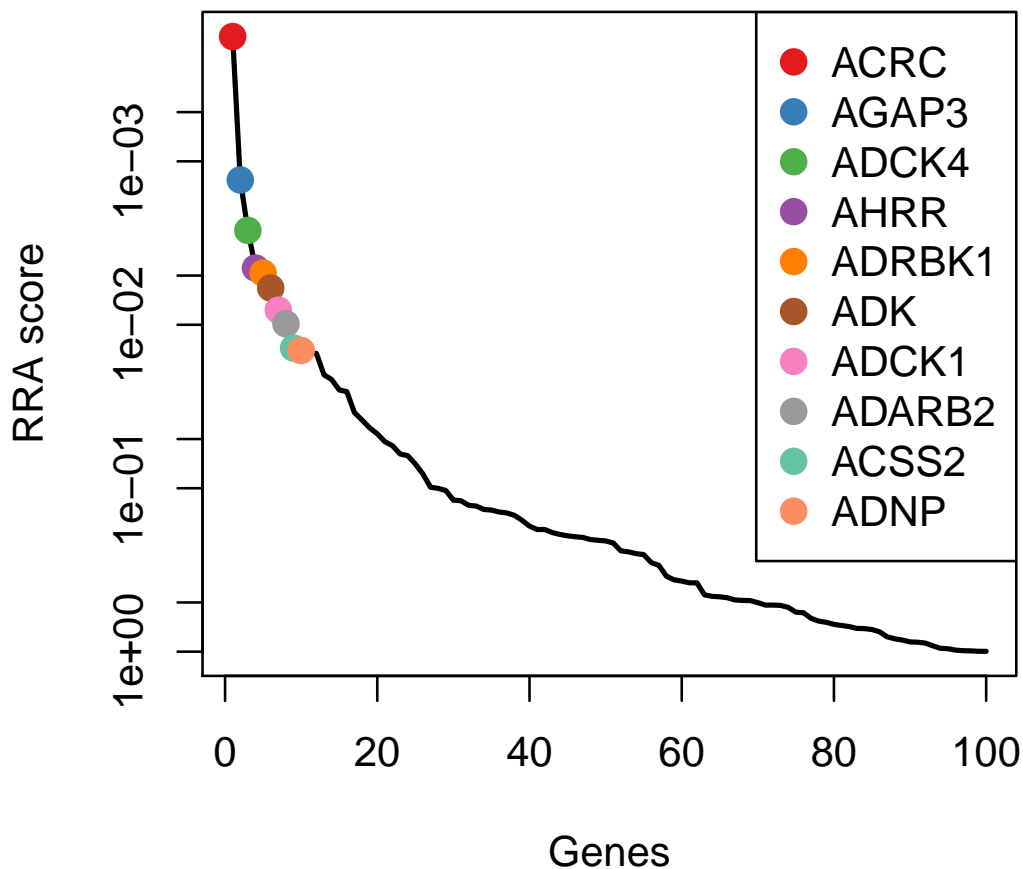
sgRNAs in AHCTF1

sgRNAs in ABT1

sgRNAs in ADIRF

sgRNAs in ABCF1

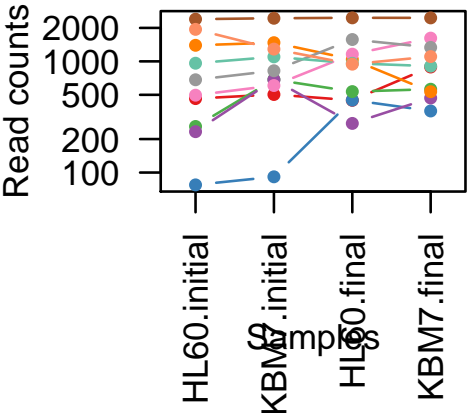# 3 Comparison results of HL60.final,KBM7.final vs HL60.initial,KBM7.initial pos.

The following figure shows the distribution of RRA score in the comparison HL60.final,KBM7.final vs HL60.initial,KBM7.initial pos., and the RRA scores of 10 genes.
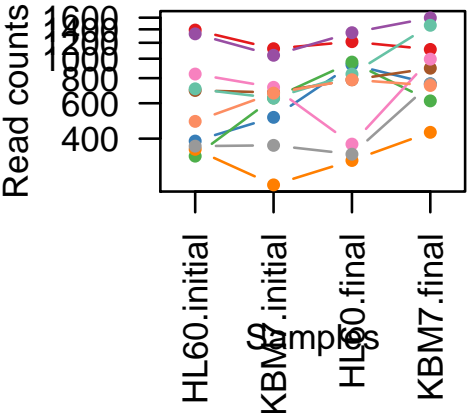
The following figures show the distribution of sgRNA read counts (normalized) of selected genes in selected samples.
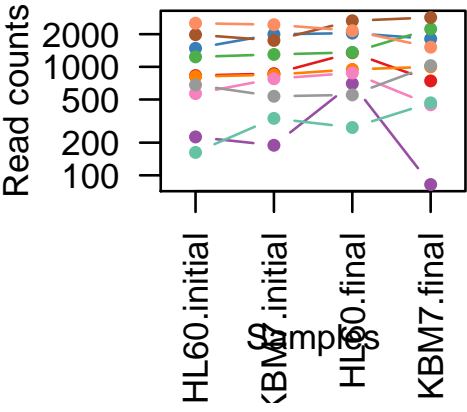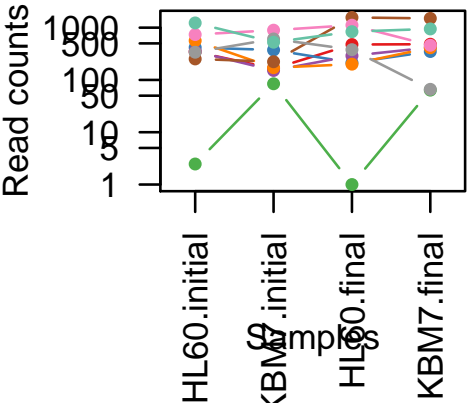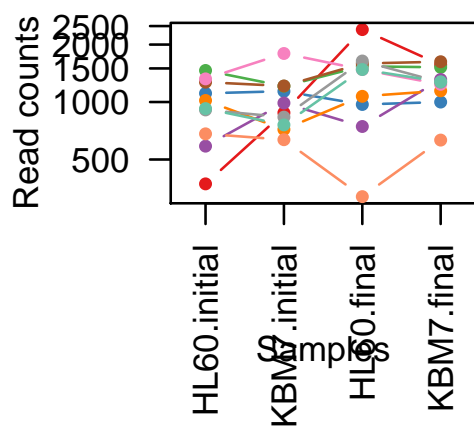

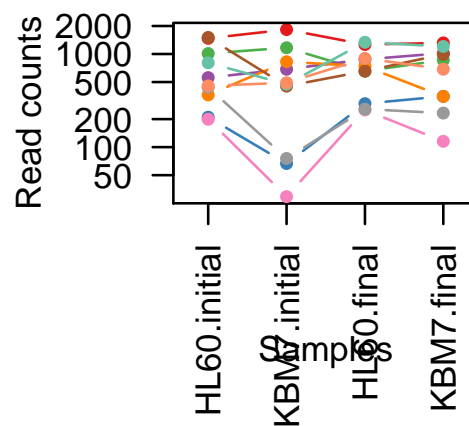**sgRNAs in ACRC**

sgRNAs in AGAP3
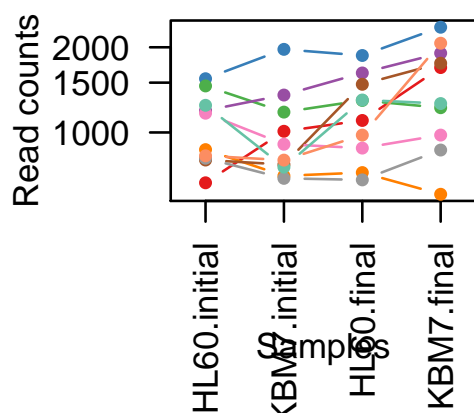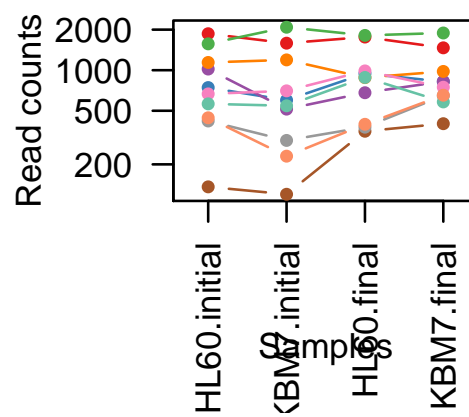

sgRNAs in ADCK4

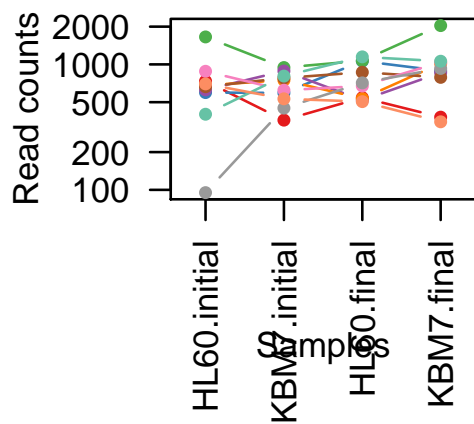**sgRNAs in AHRR**

sgRNAs in ADRBK1

sgRNAs in ADK

sgRNAs in ADCK1

sgRNAs in ADARB2

sgRNAs in ACSS2

sgRNAs in ADNP