

MAGeCK Comparison Report

Wei Li

June 25, 2020

Contents

1	Summary	1
2	Comparison results of fxn 1 vs rest neg.	3
3	Comparison results of fxn 1 vs rest pos.	7

1 Summary

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

	Comparison	Genes	Selection	FDR1%	FDR5%	FDR10%
1	FXN High Gate vs Baseline	19280	positive	32	183	419

Table 1: Number of genes detected as significantly enriched in FXN High samples

	Comparison	Genes	Selection	FDR1%	FDR5%	FDR10%
1	FXN High Gate vs Baseline	19280	positive	32	183	419

Table 2: Number of genes detected as significantly enriched in FXN High samples

	Comparison	Genes	Selection	FDR1%	FDR5%	FDR10%
1	FXN High Gate vs Baseline	19280	positive	32	183	419

Table 3: Number of genes detected as significantly enriched in FXN High samples

The meanings of the columns are as follows.

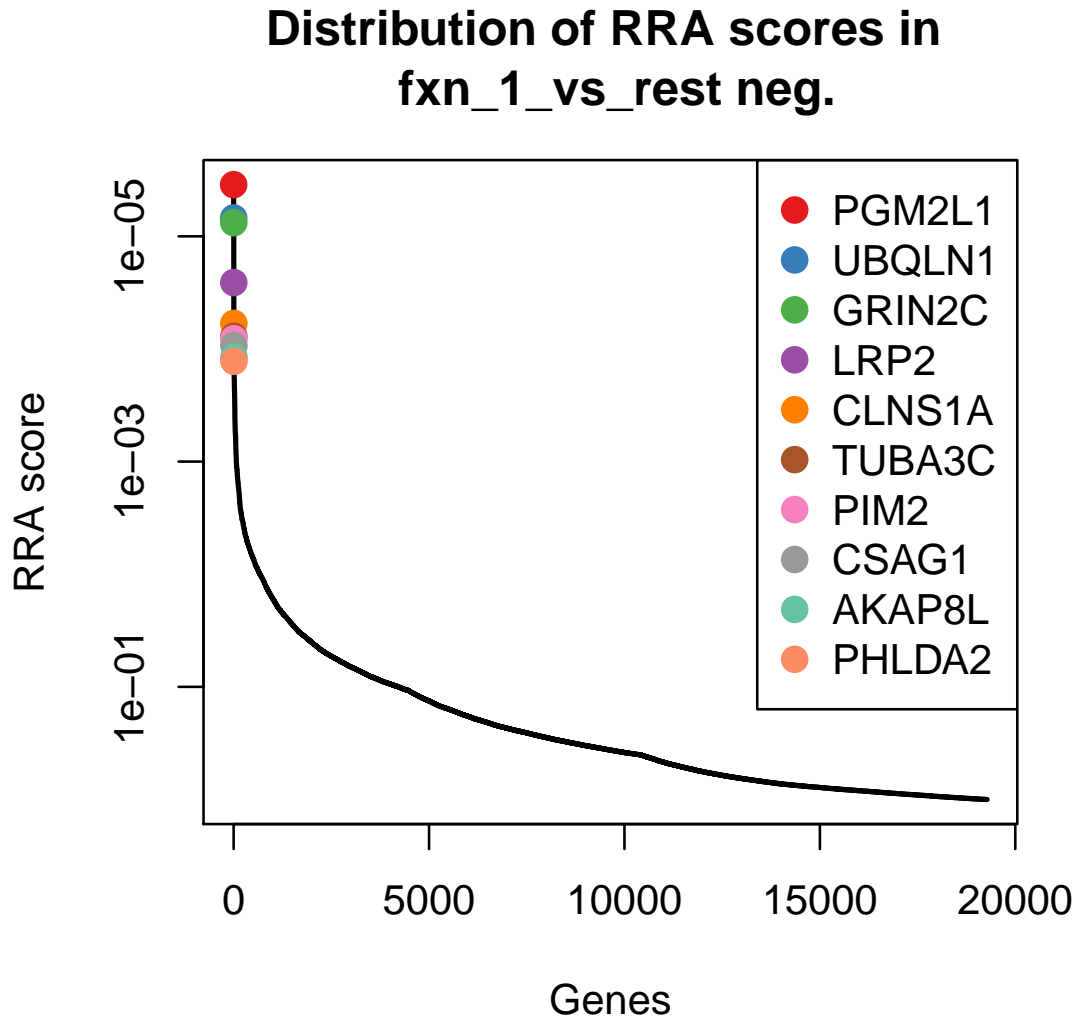
- **Comparison:** The label for comparisons;
- **Genes:** The number of genes in the library;
- **Selection:** The direction of selection, either positive selection or negative selection;
- **FDR1%:** The number of genes with $\text{FDR} < 1\%$;
- **FDR5%:** The number of genes with $\text{FDR} < 5\%$;
- **FDR25%:** The number of genes with $\text{FDR} < 25\%$;

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.

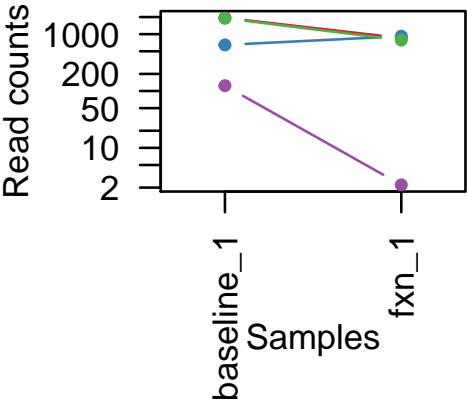
2 Comparison results of fxn 1 vs rest neg.

The following figure shows the distribution of RRA score in the comparison fxn 1 vs rest neg., and the RRA scores of 10 genes.

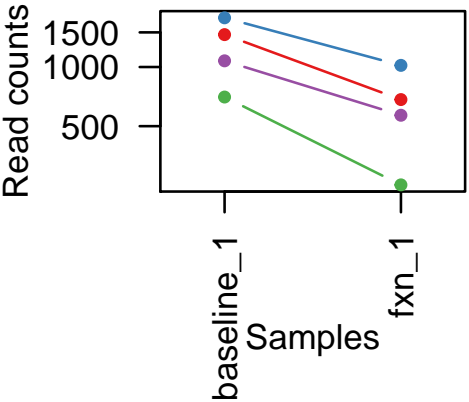


The following figures show the distribution of sgRNA read counts (normalized) of selected genes in selected samples.

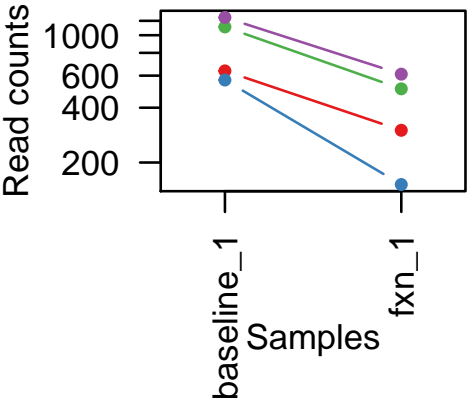
sgRNAs in PGM2L1



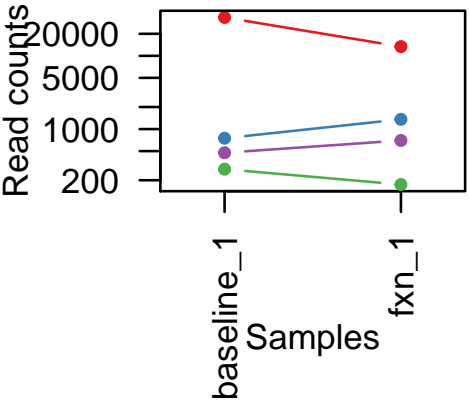
sgRNAs in UBQLN1



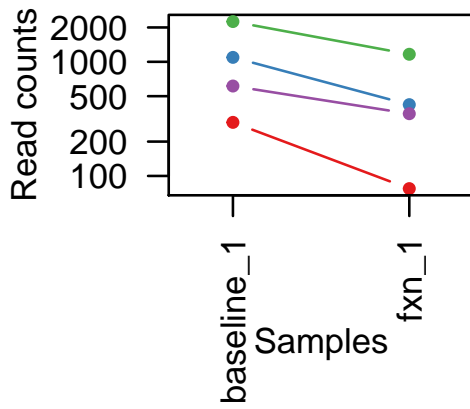
sgRNAs in GRIN2C



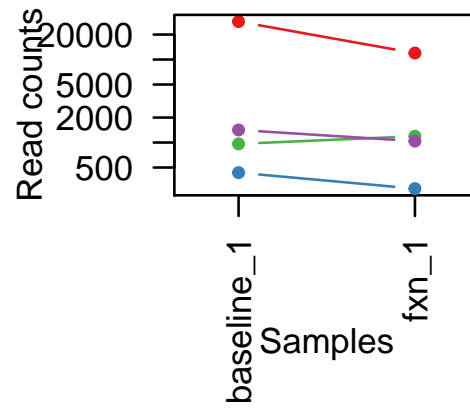
sgRNAs in LRP2



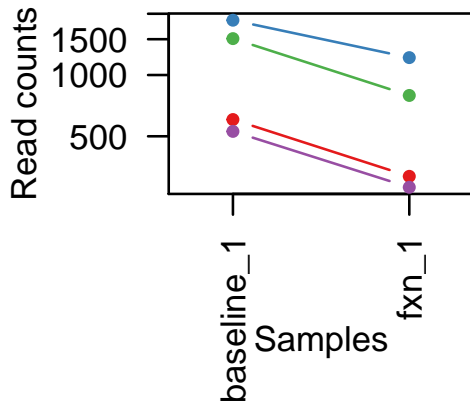
sgRNAs in CLNS1A



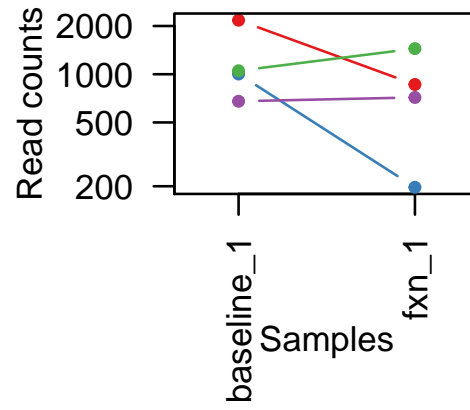
sgRNAs in TUBA3C



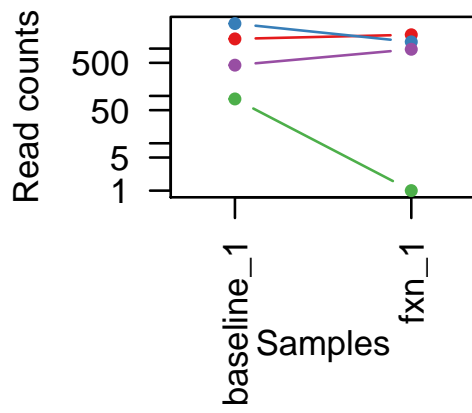
sgRNAs in PIM2



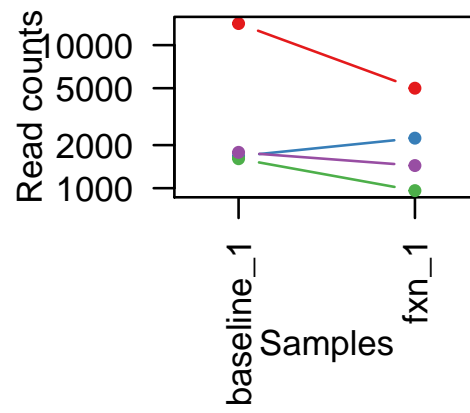
sgRNAs in CSAG1



sgRNAs in AKAP8L

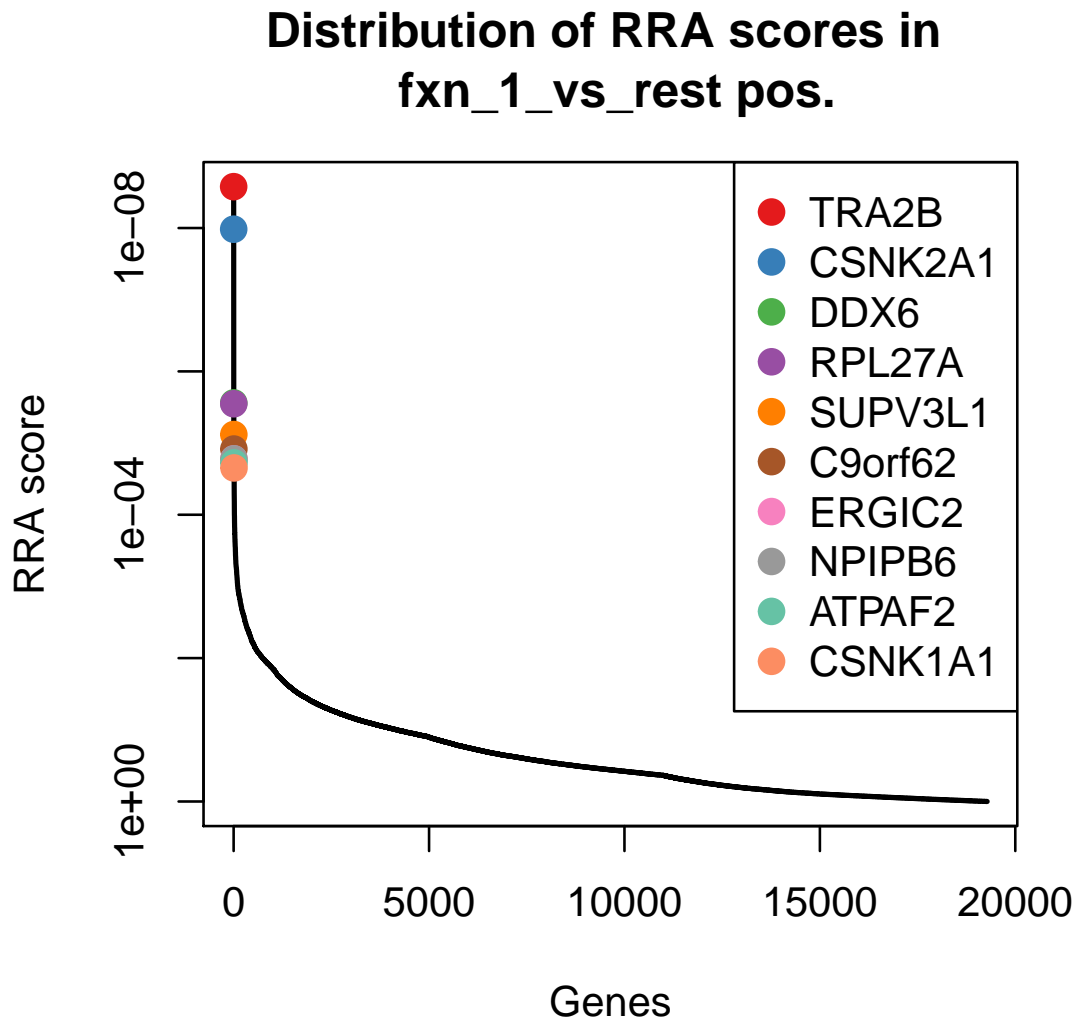


sgRNAs in PHLDA2



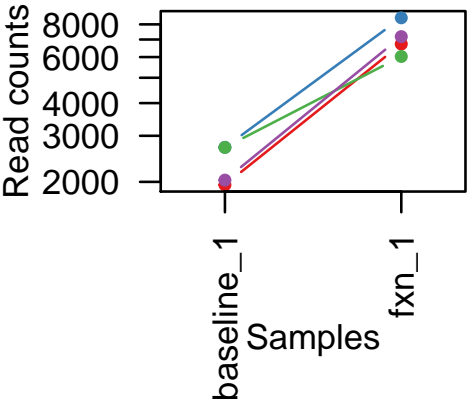
3 Comparison results of fxn 1 vs rest pos.

The following figure shows the distribution of RRA score in the comparison fxn 1 vs rest pos., and the RRA scores of 10 genes.

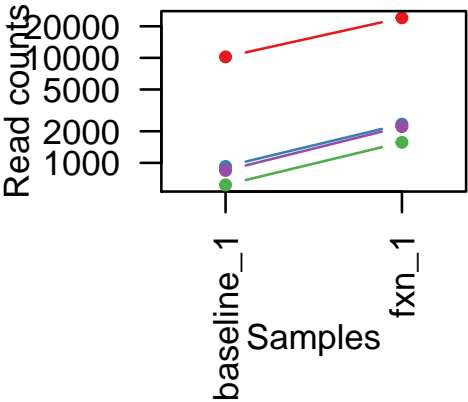


The following figures show the distribution of sgRNA read counts (normalized) of selected genes in selected samples.

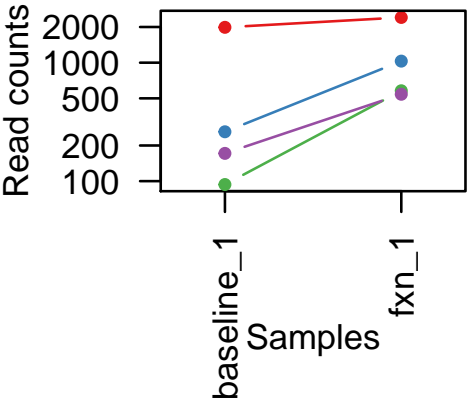
sgRNAs in TRA2B



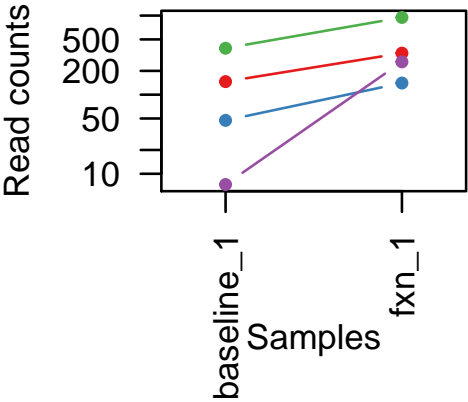
sgRNAs in CSNK2A1



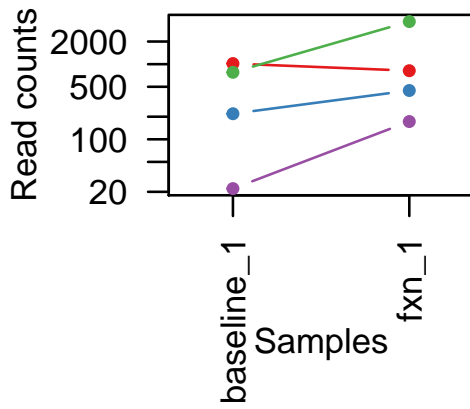
sgRNAs in DDX6



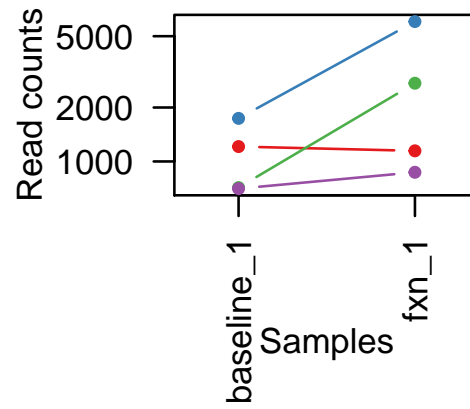
sgRNAs in RPL27A



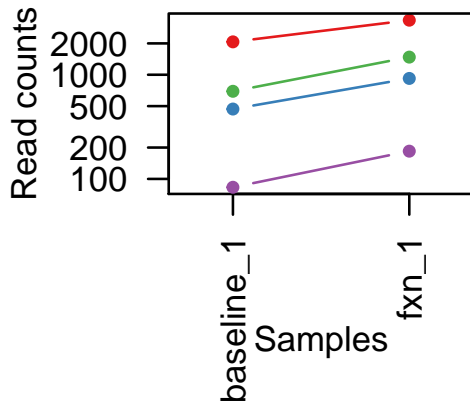
sgRNAs in SUPV3L1



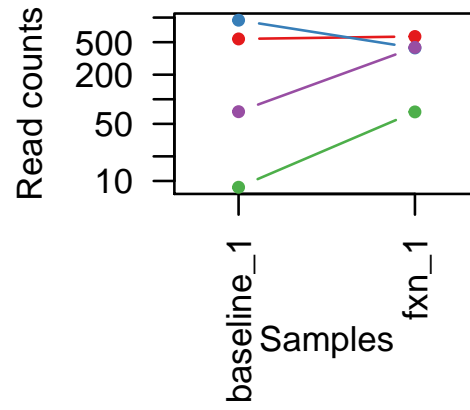
sgRNAs in C9orf62



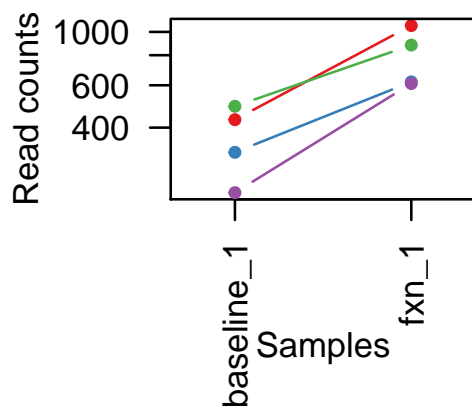
sgRNAs in ERGIC2



sgRNAs in NPIP6



sgRNAs in ATPAF2



sgRNAs in CSNK1A1

