

A

RNAseq dataset	Lariat Reads	Unique BPs	Unique Introns
ENCODE	161,749	46,732	31,691
Mattick	108,927	30,686	21,913
In-house SF3B1 mut/wt RNAseq	1,008,741	2,712	2,308
TOTAL	1,279,417	71,272	44,332

B

Species	Lariat Reads	Unique BPs	Unique Introns
Human	4,775,962	73,075	42,417
Mouse	17,213	11,226	9,340
S Pombe	58,832	3,556	1,428

Supplementary Figure 1 - Total raw lariat read counts from all RNAseq sources.

(A) Total raw lariat read counts in human from different RNAseq sources. (B) Total raw lariat read counts in different species (human, mouse, fission yeast).

1. An integrated encyclopedia of DNA elements in the human genome. *Nature* 489, 57-74, doi:10.1038/nature11247 (2012).
2. Mercer, T. R. et al. Genome-wide discovery of human splicing branchpoints. *Genome research* 25, 290-303, doi:10.1101/gr.182899.114 (2015).
3. Bitton, D. A. et al. LaSSO, a strategy for genome-wide mapping of intronic lariats and branch points using RNA-seq. *Genome research* 24, 1169-1179, doi:10.1101/gr.166819.113 (2014).
4. Yue, F. et al. A comparative encyclopedia of DNA elements in the mouse genome. *Nature* 515, 355-364, doi:10.1038/nature13992 (2014).