

**Table S4 Illumina sequencing results**

	Transposition library	Lethal insertions	Lethal insertion subsets	
			Subset 1	Subset 2
Number of sequencing runs	3	1	1	1
Number of 36-bp reads mapped to Chromosome IX	14,000,357	13,710,514	10,075,540	13,424,377
Number of Chromosome IX reads containing <i>NotI</i>	96,569	166,135	290,126	319,434
Number of Chromosome IX reads with <i>NotI</i> in <i>NDC80</i> + promoter/terminator	93,826	N/A	N/A	N/A
Number of Chromosome IX reads with <i>NotI</i> in <i>NDC80</i>	70,215	165,414	289,470	318,637
Number of unique <i>NotI</i> sites in <i>NDC80</i>	1,074	336	320	351
Coverage of <i>NDC80</i> gene (%)	52	16	15	17
Number of unique codons containing insertions	444	162	149	165
Coverage of Ndc80 protein (%)	64	23	22	24

N/A, not applicable