

**Table S3 Strain-specific Mutation Spectrum**

The absolute number of mutations identified in each class of mutation, as well as the percent of overall mutations they represent, within each strain is provided.

	WT		Pol II <sup>-</sup>		Pol IV <sup>-</sup>		Pol V <sup>-</sup>		Pol V <sup>+</sup>		Pol IV <sup>+</sup>		Pol II <sup>+</sup>		- / - / -	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
GC → AT	11	9%	21	17%	22	17%	19	15%	29	22%	25	20%	23	18%	25	20%
GC → TA	22	18%	17	14%	12	9%	10	8%	15	12%	13	10%	9	7%	12	9%
GC → CG	9	7%	4	3%	4	3%	5	4%	12	9%	5	4%	2	2%	1	1%
AT → GC	21	17%	22	18%	18	14%	30	24%	21	16%	17	13%	20	16%	14	11%
AT → TA	27	22%	11	9%	38	30%	15	12%	17	13%	18	14%	13	10%	39	30%
AT → CG	34	27%	46	38%	34	27%	45	36%	35	27%	48	38%	46	36%	36	28%
Deletions	0	0%	0	0%	0	0%	1	1%	1	1%	2	2%	14	11%	0	0%
Insertions	1	1%	0	0%	0	0%	0	1%	0	0%	0	0%	0	0%	1	1%
Total Identified	125		121		128		125		130		128		127		128	