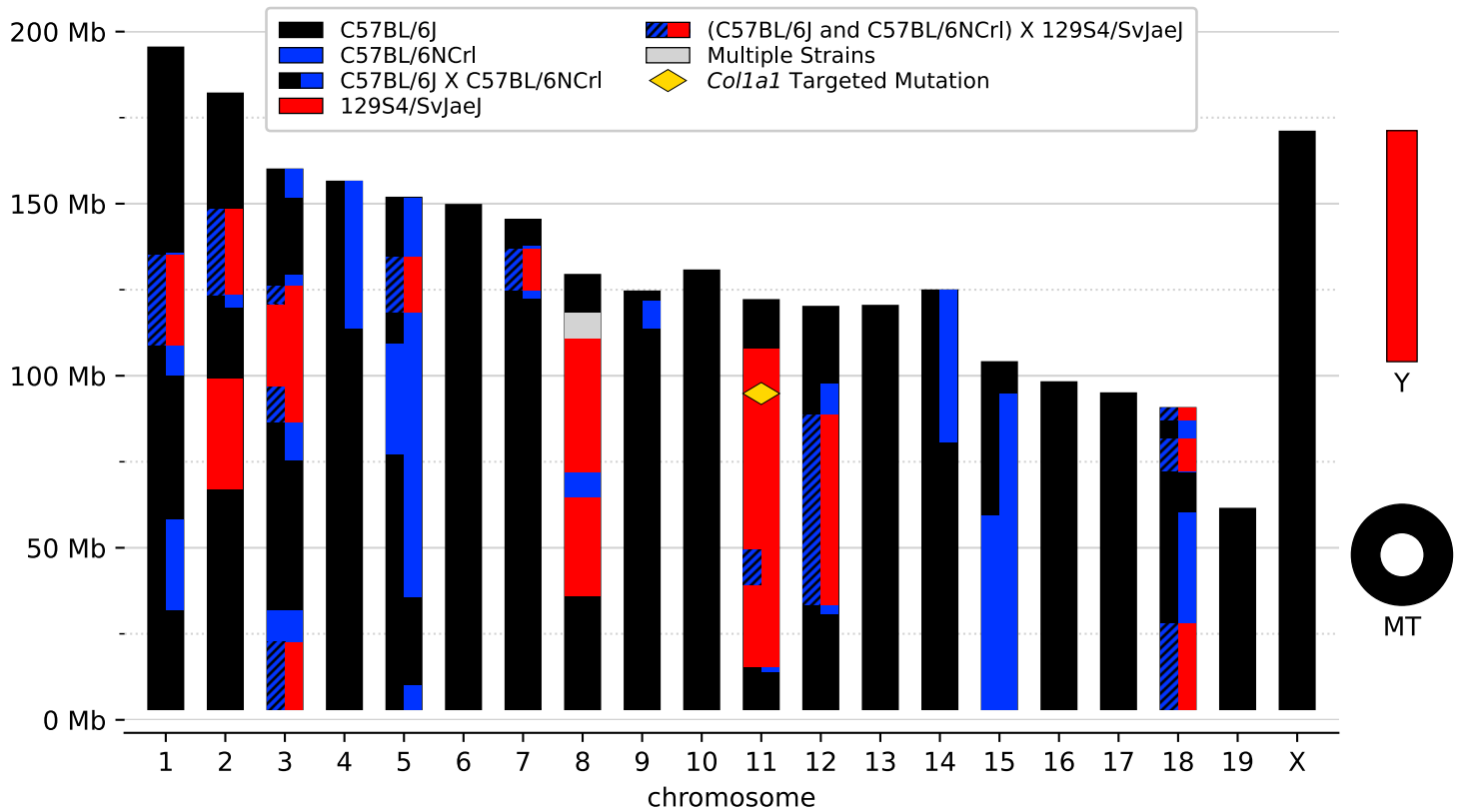


Summary: Incipient congenic strain carrying the tm4Fcam allele of the Col1a1 gene on mixed C57BL/6 background. The allele of interest present on chromosome 11 is on the donor background (129S4/SvJaeJ). The donor background is also present in other chromosomes. 129S4/SvJaeJ, C57BL/6J, and C57BL/6NCrI were detected with diagnostic alleles. The genome of this strain is not fully replicable because up to 8.5% of the genome is segregating for the donor background and at least 12.4% of the genome is segregating for the substrains of the primary background. This GQC report is based on the MiniMUGA G3 2024 pipeline using 2 samples genotyped in 2025.



Genetic Background	Zygoty	Genome %	Estimated # Segregating SNPs
C57BL/6J and C57BL/6NCrI	N/A	83.2%	N/A
C57BL/6J	Homozygous	66.7%	N/A
C57BL/6NCrI	Homozygous	4.1%	N/A
C57BL/6J X C57BL/6NCrI	Heterozygous	12.4%	1,800
129S4/SvJaeJ	Homozygous	8.0%	N/A
(mixed C57BL/6) X 129S4/SvJaeJ	Heterozygous	8.5%	203,500
Total		99.7%	205,300

Substrain Detected	KF7318	VA1337
C57BL/6J	present	present
C57BL/6NCrI	present	present
129S4/SvJaeJ	present	present

Constructs Detected
bpA, g_FP, hCMV_a, hCMV_b