

Summary: Cross strain carrying the *tm1(KOMP)Vlcg* allele of the *Sema3g* gene on mixed background. Neither parental background contributes at least 80% of the genome in homozygosity. The allele of interest present on chromosome 14 is on the donor background (C57BL/6NRj). At least one additional unexplained genetic background was detected. C57BL/6J and C57BL/6NRj were detected with diagnostic alleles. The genome of this strain is not replicable. This GQC report is based on the MiniMUGA G3 2024 pipeline using 2 samples genotyped in 2019.

| Genetic Background | | Zygosity | Genome % |
|-----------------------------------|--|-------------|----------|
| C57BL/6J, C57BL/6NRj, Unexplained | | Segregating | >32.1% |

| Substrain Detected | # present in YL4500 | # present in AG3795 | Total SNPs Annotated |
|--------------------|---------------------|---------------------|----------------------|
| C57BL/6J | 136 | 140 | 168 |
| C57BL/6NRj | 12 | 13 | 38 |

| Constructs Detected |
|---------------------|
| None |