

Summary: Stock strain carrying the *tm1Nbm* allele of the *Gba1* gene, the *tm1Nbm* allele of the *Snca* gene, and two different insertion sites for the *SNCA\**A53T** transgene (multi-copy) on mixed background. The genetic background cannot be resolved for most of the genome with MiniMUGA. 129S4/SvJaeJ, 129S6/SvEvTac, C57BL/6J, C57BL/6NTac, and FVB/NTac were detected with diagnostic alleles. The genome of this strain is not replicable. No male was genotyped; thus, the genetic background of the Y chromosome is unknown. This GQC report is based on the MiniMUGA G3 2024 pipeline using 2 samples genotyped in 2025.

Substrain Detected	TC5228	KR6028	Constructs Detected
129S6/SvEvTac	present	present	hTK_pr
FVB/NTac	present	present	
129S4/SvJaeJ	present	present	
C57BL/6NTac	present	present	
C57BL/6J	present	present	