

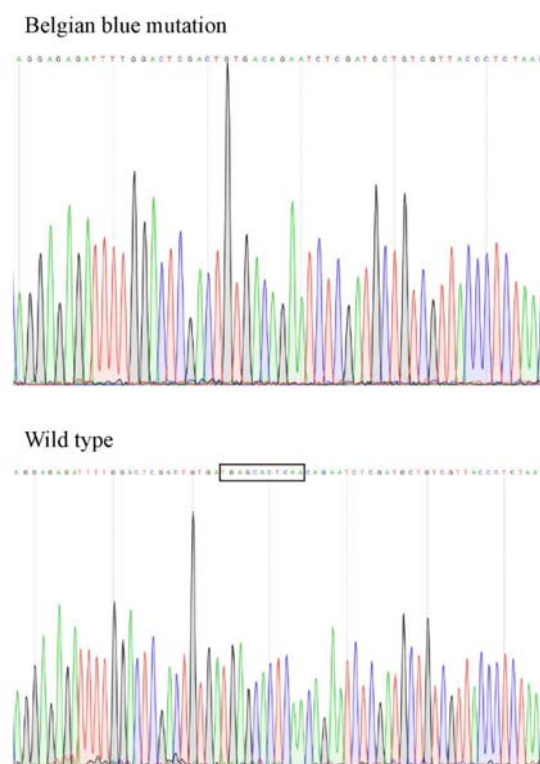
## Appendix A Experimental treatments

Group	Cpf1/sgRNA expression vector	Marker-free element	G418 screening	Oligo
1	+	—	—	—
2	+	+	+	—
3	+	+	+	+

+, adding corresponding reagents; —, not adding corresponding reagents

## Appendix B Generation of genetically modified pigs harboring the Belgian Blue mutation by SCNT

Surrogate	No. of embryos transferred	Pregnant or not	No. of pigs born
CAU-1	381	Not pregnant	0
CAU-2	375	Not pregnant	0
CAU-3	387	Pregnant	2



**Appendix C Sequence chromatograms of the Belgian Blue mutation from piglets generated by SCNT.** The targeted regions were amplified using genomic DNA derived from a positive piglet and a WT control. The PCR products were sub-cloned into PMD19T for Sanger sequencing. Top, sequence chromatogram showing the Belgian Blue mutation; bottom, sequence chromatogram showing the wild type genotype. The 11-bp region that is deleted in the Belgian Blue mutation is enclosed in a rectangle (bottom). The region is absent at the corresponding site in the genome of mutant piglets (top).