Supplementary Figure 2

a

Potential off-target site 1:
Chromosome: 12
Query 9 TCCCCCTGCACCAGG 23
Sbjct 23955230 TCCCCCTGCACCAGG 23955244

Potential off-target site 2:
Chromosome: 5
Query 10 CCCCCTGCACCAGG 23
Sbjct 23957304 CCCCCTGCACCAGG 23957291

Potential off-target site 3:
Query 9 TCCCCCTGCACCAGG 23
Sbjct 75049055 TCCCCCTGCACCAGG 75049041
Chromosome 5

Potential off-target site 4:
Query 7 TGTCCCCCTGCACCAGG 23
Sbjct 184622440 TGTCCCCCTGCACCAGG 184622424
Chromosome 1

Potential off-target site 5:
Query 7 TGTCCCCCTGCACCAGG 23
Sbjct 184835830 TGTCCCCCTGCACCAGG 184835846
Chromosome 1

Potential off-target site 6:
Query 8 GTCCCCCTGCACCAGG 23
Sbjct 304696826 GTCCCCCTGCACCAGG 304696841
Chromosome 1

Potential off-target site 7:
Query 8 GTCCCCCTGCACCAGG 23
Sbjct 47164181 GTCCCCCTGCACCAGG 47164166
Chromosome 15

Potential off-target site 8:
Query 8 GTCCCCCTGCACCAGG 23
Sbjct 57260515 GTCCCCCTGCACCAGG 57260530
Chromosome 15

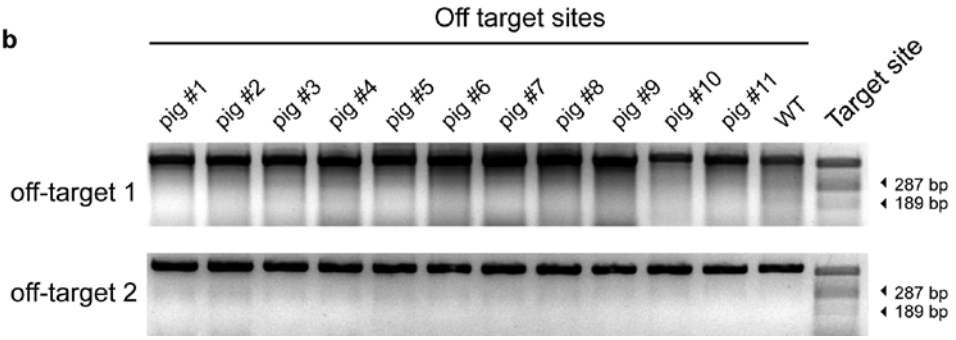
Potential off-target site 9:
Query 9 TCCCCCTGCACCAGG 23
Sbjct 153963836 TCCCCCTGCACCAGG 153963822
Chromosome 2

Potential off-target site 10:
Query 9 TCCCCCTGCACCAGG 23
Sbjct 28242978 TCCCCCTGCACCAGG 28242964
Chromosome 10

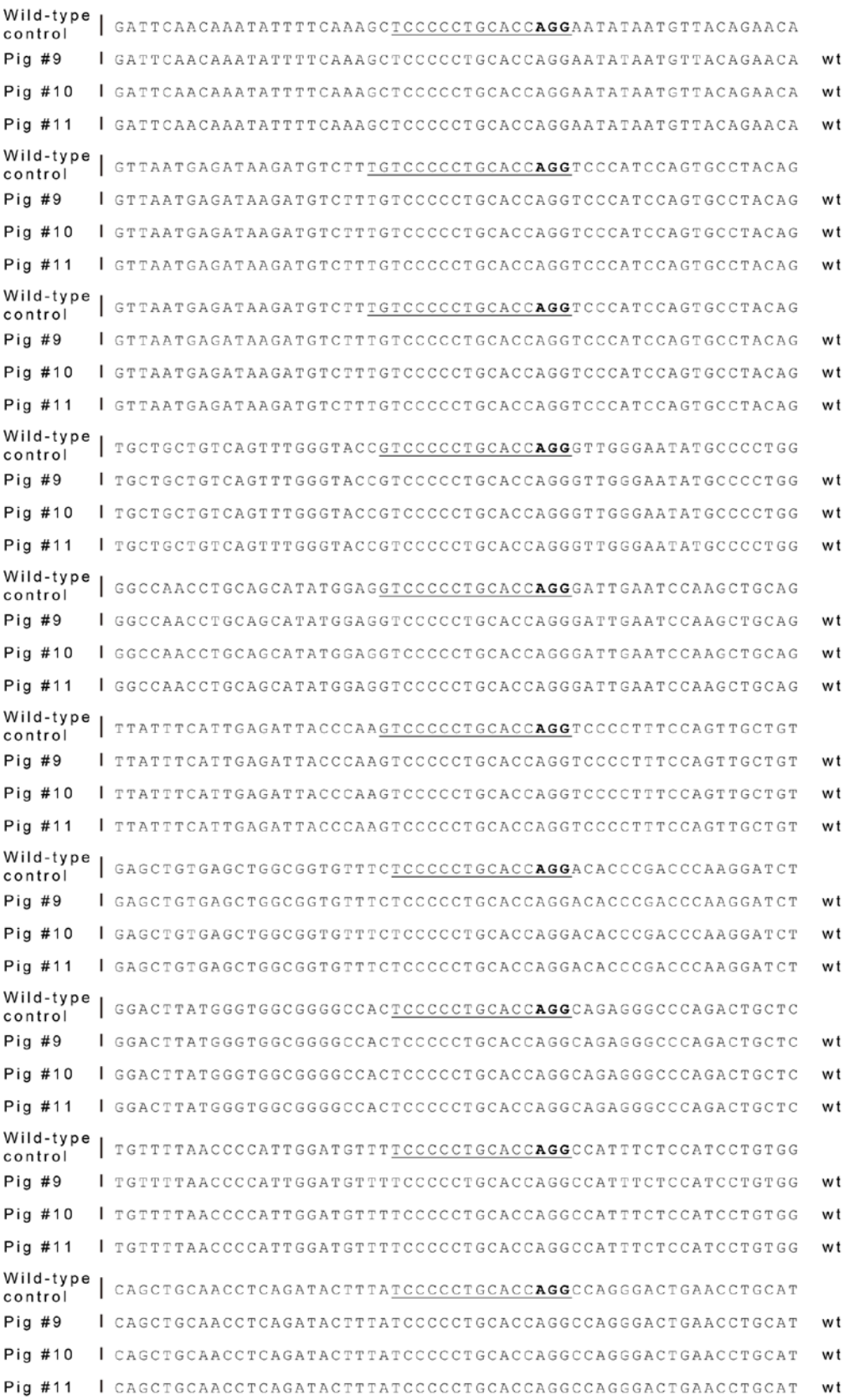
Potential off-target site 11:
Query 1 TCCCCCTGCACCAGG 15
Sbjct 70556960 TCCCCCTGCACCAGG 70556946
Chromosome 13

Potential off-target site 12:
Query 1 TCCCCCTGCACCAGG 15
Sbjct 26399419 TCCCCCTGCACCAGG 26399405
Chromosome 13

b



c



Supplementary Figure S2 Off-targets analysis in *vWF* mutant pigs. (a) Based on the prediction method, the potential off-target sites of sgRNA-*vWF* are indicated, and PAM site is shown in red

bold letter. (b) T7EI analysis of two potential off-target sites in all the 11 mutant piglets, and no off-target cleavage was detected. (c) Sanger sequencing of 10 randomly selected off-target sites in three biallelic mutant pigs.