

Appendix D RepeatMasker annotation information of 24 suspected polymorphic marker sites

Site name	Structural variation	Structural variation		Retrotransposon	Insertion direction related to gene	Status	Breeds
		Start ¹⁾	End ²⁾				
<i>ZNF2</i> -SINE-RIP	>50 bp	6486	6799	SINEA1	Sense	Deletion	Bama, Wuzhishan, Bamei, Landrace, Yorkshire, Cross-bred, Pietrain, Rongchang, Jinhua, Ellegaard Gottingen minipig, Tibetan, Meishan
<i>ZNF2</i> -L1-RIP	>50 bp	18547	18673	L1D8	Sense	Deletion	Hampshire , Bama, Wuzhishan, Tibetan, Ellegaard Gottingen minipig, Yorkshire
<i>ZNF2</i> -SINE-1	>50 bp	14381	14505	SINEA4	Sense	Deletion	Yorkshire, Rongchang
<i>ZNF2</i> -SINE-2	>50 bp	19895	20028	SINEA6	Antisense	Deletion	Meishan
<i>ZNF2</i> -SINE-3	>50 bp	20262	20460	SINEB2	Antisense	Deletion	Meishan
<i>ZNF2</i> -SINE-4	>50bp	9188	9189	SINEB3	Antisense	Insertion	Tibetan
<i>ZNF3</i> -SINE-RIP1	>50bp	1408	1825	SINEA8	Antisense	Deletion	Rongchang, Bama
<i>ZNF3</i> -SINE-RIP2	>50bp	8265	8628	SINEA7	Antisense	Deletion	Ellegaard Gottingen minipig, Bama
<i>ZNF3</i> -SINE-1	>50 bp	11567	11568	SINEA5	Sense	Insertion	Tibetan
<i>ZNF3</i> -SINE-2	>50 bp	8192	8193	SINEA7	Antisense	Insertion	Meishan
<i>ZNF7</i> -SINE-RIP	>50 bp	14961	15278	SINEA1	Sense	Deletion	Meishan, Rongchang, Cross-bred, Berkshire,

								Tibetan, Yorkshire, Jinhua, Bama, Ellegaard Gottingen minipig, Landrace, Hampshire, Bamei Ellegaard Gottingen minipig
<i>ZNF7</i> -SINE-1	>50 bp	17865	17953	SINEA1	Antisense	Deletion		
<i>ZNF8</i> -SINE-1	>50 bp	8058	8121	SINEA6	Antisense	Deletion		Ellegaard Gottingen minipig
<i>ZNF8</i> -SINE-2	>50 bp	25884	26025	SINEA3	Sense	Deletion		Ellegaard Gottingen minipig
<i>ZNF10</i> -SINE-1	>50 bp	10671	10841	SINEA5	Sense	Deletion		Ellegaard Gottingen minipig
<i>ZNF10</i> -SINE-2	>50 bp	18992	18993	SINEA5	Antisense	Insertion		Rongchang
<i>ZNF10</i> -SINE-3	>50 bp	21765	21766	SINEA8	Sense	Insertion		Wuzhishan
<i>ZNF10</i> -SINE-4	>50 bp	24249	24388	SINEA1	Antisense	Deletion		Tibetan
<i>ZNF10</i> -SINE-5	>50 bp	32455	32732	SINEA2	Antisense	Deletion		Ellegaard Gottingen minipig
<i>ZNF12</i> -L1-RIP	>50 bp	11025	12172	L1D19	Antisense	Deletion		Ellegaard Gottingen minipig, Tibetan
<i>ZNF12</i> -SINE-1	>50 bp	6653	7076	SINEA4	Sense	Deletion		Jinhua
<i>ZNF12</i> -SINE-2	>50 bp	4248	4310	SINEA5	Antisense	Deletion		Bamei , Wuzhishan
<i>ZNF12</i> -SINE-3	>50 bp	23357	23358	SINEA2	Sense	Insertion		Jinhua, Meishan
<i>ZNF12</i> -L1	>50 bp	8523	8745	L1A4	Antisense	Deletion		Jinhua

¹⁾Start: The start position of RIP in reference gene (including flanks) sequences.

²⁾End: The end position of RIP in reference gene (including flanks) sequences.