

Supplementary information, Figure S2

RAG1 TALEN

WT	<u>CCACCAAGCCAAACCTTTCGACATCTTTGCCGCATCTGTGGGAATTCTTT</u>	
1	CCACCAAGCCAAACCTTTCGACATCTTTGCCGCATCTGTGGGAATTCTTT	WT
	CCACCAAGCCAAACCTTTCGACATCTTTGCCGCATCTGTGGGAATTCTTT	(Δ1) x6
2	CCACCAAGCCAAACCTTTCGACATCTTTGCCGCATCTGTGGGAATTCTTT	WT
	CCACCAAGCCAAACCTTTCGACAT--TGCCGCATCTGTGGGAATTCTTT	(Δ3) x2
	CCACCAAGCCAAACCTTTCGACA A-----CCGCATCTGTGGGAATTCTTT	(Δ6,+1) x2
	CCACCAAGCCAAACCTTTCGACA-----CCGCATCTGTGGGAATTCTTT	(Δ6) x4
3	CCACCAAGCCAAACCTTTCGACATCTTTGCCGCATCTGTGGGAATTCTTT	WT
	CCACCAAGCCAAACCTTTCGACATCTTTT TTTTGCCGCATCTGTGGGAATT	(+4) x2
	CCACCAAGCCAAACCTTTCGACATC-----TGTTGGGAATTCTTT	(Δ11) x3
4	CCACCAAGCCAAACCTTTCGACATCTTTGCCGCATCTGTGGGAATTCTTT	WT
	CCACCAAGCCAAACCTTTCGACATCT-----GATGGGAATTCTTT	(Δ12,+2)
	CCACCAAGCCAAACCTTTCGACATCT-----GTGGGAATTCTTT	(Δ11) x3
	CCACCAAGCCAAACCTTTCGACAT-----	(Δ88)
5	CCACCAAGCCAAACCTTTCGACATCTTTGCCGCATCTGTGGGAATTCTTT	WT
	CCACCAAGCCAAACCTTTCGACAT-----CTGTGGGAATTCTTT	(Δ11) x3
6	CCACCAAGCCAAACCTTTCGACATCT-----GTGGGAATTCTTT	(Δ11)
	CCACCAAGCCAAACCTTTCGAC-----	(Δ34)
	CCACCAAGCCAAACCTTTCGAC-----	(Δ108) x5
8	CCACCAAGCCAAACCTTTCGACATCTTTGCCGCATCTGTGGGAATTCTTT	(Δ1) x4
	CCACCAAGCCAAACCTTTCGACAT---GCCGCATCTGTGGGAATTCTTT	(Δ4) x4
9	CCACCAAGCCAAACCTTTCGACATCTTTGCCGCATCTGTGGGAATTCTTT	(Δ1) x5
	CCACCAAGCCAAACCTTTCGACATCT--GCCGCATCTGTGGGAATTCTTT	(Δ2) x2
10	CCACCAAGCCAAACCTTTCGACAT-----	(Δ88) x6
11	CCACCAAGCCAAACCTTTCGACATCTGGGACATGCCGCATCTGTGGGAAT	(Δ1,+6) x2
	CCACCAAGCCAAACCTTTCGACAT---TGCCGCATCTGTGGGAATTCTTT	(Δ3) x3
	CCACCAAGCCAAACCTTTCGACAT-----CTGTGGGAATTCTTT	(Δ11)
12	CCACCAAGCCAAACCTTTCGACATCT-----GTGGGAATTCTTT	(Δ11) x8
13	CCACCAAGCCAAACCTTTCGACAT---TGCCGCATCTGTGGGAATTCTTT	(Δ3) x7
	CCACCAAGCCAAACCT-----GCCGCATCTGTGGGAATTCTTT	(Δ11)
14	CCACCAAGCCAAACCTTTCGACATCTGTGGGTGCCGCATCTGTGGGAATTC	(Δ2,+5)
	CCACCAAGCCAAACCTTTCGACAT---GCCGCATCTGTGGGAATTCTTT	(Δ4) x3
	CCACCAAGCCAAACCTTTCGACAT-----CCGCATCTGTGGGAATTCTTT	(Δ5)
	CCACCAAGCCAAACCTTTCGACA-----ATTCTTT	(Δ20) x3
15	CCACCAAGCCAAACCTTTCGACATCTTTGCCGCATCTGTGGGAATTCTTT	WT
	CCACCAAGCCAAACCTTTCGACAT---TGCCGCATCTGTGGGAATTCTTT	(Δ3) x6
16	CCACCAAGCCAAACCTTTCGACAT---GCCGCATCTGTGGGAATTCTTT	(Δ4) x3
	CCACCAAGCCAAACCTTTCGA-----CATCTGTGGGAATTCTTT	(Δ11) x2
	CCACCAAGCCAAACCTTTCG-----CATCTGTGGGAATTCTTT	(Δ12)
17	CCACCAAGCCAAACCTTTCG-----CATCTGTGGGAATTCTTT	(Δ12)
	CCACCAAGCCAAACCTTTCGAC-----	(Δ88) x4
18	CCACCAAGCCAAACCTTTCGACATCT-----GTGGGAATTCTTT	(Δ11) x9

Figure S2 Sequencing analysis for TALENs-induced mutations in the RAG1 alleles in newborn rabbits. Multiple mutations were found in the target site including insertion, deletion or combination. The recognition regions of RAG1 exon are underlined. The red letters indicated insertions.