

Title

Production of immunodeficient rabbits by multiplex embryo transfer and multiplex gene targeting

Authors

Jun Song¹, Dongshan Yang¹, Jinxue Ruan, Jifeng Zhang, Yuqing Eugene Chen*, Jie Xu*

Supplementary information

Table S1. Primers used for genotyping.

Gene/Primer Name	Sequence (5' to 3')
Rag1	
rbRag1_F	AATGCCTCTGTTCTCCGTTCTATGAT
rbRag1_R	AAGGCCTTGGGTTTTACTGTCC
Rag2	
rbRag2_F	GCGGGAAGGTTCTGGGTCTCT
rbRag2_R	AACATGGGGCAGGCAATCAGC
Prkdc	
rbPRKDC_F	TCGCGGGAAATCTGGGGAGTA
rbPRKDC_R	GGGGGAGCAGAAGGACAAATCAC
Il2rg	
rbIL2RG_F	CCCCACCCCCACCTCCTCTG
rbIL2RG_R	CCCCCTTCTCAATCCACTCCCCTACT
Foxn1	
rbFOXN1_F	CCGACCCCAGGCCCCAGAAGTGT
rbFOXN1_R	GCAGGGAAGCCAGGCAGGAAGG

Table S2. Primers used for off-target analysis.

Gene, off-target#/Primer Name	Sequence (5' to 3')
Foxn1, OT-N-1	
OT-N-1-F	TGGCCAGCTCACGCACAGT
OT-N-1-R	TGAAATCTCCGACGGTTCTCTTA
OT-N-1-seq	GCCCACAGGAACAGCGAAGC
Foxn1, OT-N-2	
OT-N-2-F	AGTGGGTGGGTGAGCGTGAGC
OT-N-2-R	GCCAGGGCCGGTAAGTAAGG
OT-N-2-seq	GCGTCTTCTCCCAGGTCTCAA
Foxn1, OT-N-3	
OT-N-3-F	CGTTGCGCTGCTGTCCACTC

	OT-N-3-R	GATCTTGATGTAGCCGTCGTCTGA
	OT-N-3-seq	ACAGAGGACTGGGCAGGGAAGG
Foxn1, OT-N-4		
	OT-N-4-F	GTCCCTTCCTCGTGGTCCATT
	OT-N-4-R	GCACCGACCTCCTGCAAGCT
	OT-N-4-seq	CGCCACCTCGACCTGTGACTT
Foxn1, OT-N-5		
	OT-N-5-F	CCCTACCTCCGACGCTTGTCT
	OT-N-5-R	CGCTGGCTGAAGGAATGGAC
	OT-N-5-seq	AAAGGTTTCGCGGGCGGACTG
Foxn1, OT-N-6		
	OT-N-6-F	GACGCCTCGCTGTCGGTCAT
	OT-N-6-R	GGGTTGTGGGTGTTGGGAAGT
	OT-N-6-seq	TTGGGAAGTGAACCAACAGATGGAA
Foxn1, OT-N-7		
	OT-N-7-F	GAGGAGTAGAGGTCCGAGGTAA
	OT-N-7-R	AGGGTAAGAGGCCGGTTCA
	OT-N-7-seq	AGGTGGCCTAGTCCCAGACG
Foxn1, OT-N-8		
	OT-N-8-F	GCCAACACAGAAACCCCTCCCTCATT
	OT-N-8-R	CACCCAGCCCGCTCCCATCCA
	OT-N-8-seq	AAACTTCAGGGAAGGCTGTG
Foxn1, OT-N-9		
	OT-N-9-F	CTCCCTGGGCCGTAGTGAGTGT
	OT-N-9-R	CCCTGCCGAGATCCTTTGGTC
	OT-N-9-seq	TTGGTCGGTCACAAGCAGGAA
Foxn1, OT-N-10		
	OT-N-10-F	GGGGGGCCTGGAGAACACAT
	OT-N-10-R	CCTTGGCCCAGACATCCTTAGAGA
	OT-N-10-seq	ACATGGCCTTCTTGGCTTGA
Il2rg, OT-G-1		
	OT-G-1-F	TTCCAAGTCCGCAACA
	OT-G-1-R	CGGGGAGACGAAGGTGATTTAC
	OT-G-1-seq	TGGATCAGGATTTTCGGGTGA
Il2rg, OT-G-2		
	OT-G-2-F	TGGCGGAGCAGCGTGTGAGG
	OT-G-2-R	TGGCCAGCTTTTCAGGAGGGAGTA
	OT-G-2-seq	TTATGGCCTTCACAGGGTTGC
Prkdc, OT-S-1		
	OT-S-1-F	TGTATGGCGTGGCTTCCCGACTCAGG
	OT-S-1-R	GCCATGGCCAGGAAAGACTCACAGC
	OT-S-1-seq	ACCACATTCCTGCTCAAAGTCC
Prkdc, OT-S-2		

	OT-S-2-F	CAGCCCTTCCCTCCAGAT
	OT-S-2-R	GTGCCTCAAAGCCGATACTT
	OT-S-2-seq	GCAGGCTTAGTTCTGGCACAT
Prkdc, OT-S-3		
	OT-S-3-F	GCAGAGCCCAGATTCCGCAGTT
	OT-S-3-R	GCAGCCAAGCACATCCAAAGGTA
	OT-S-3-seq	GTGAGCAGCCTCGGACCTT
Prkdc, OT-S-4		
	OT-S-4-F	ACTTCTTAGGCGGAGGAACAGAGC
	OT-S-4-R	CAGGGGTCACCGAGGGGT
	OT-S-4-seq	CCCCTGGGTAGGGTCTTCACG
Rag2, OT-R2-1		
	OT-R2-1-F	CCGCCTTTGCTTTTCGCTCCAGTT
	OT-R2-1-R	CCCCTCCCAAAGACCCGCAGTTC
	OT-R2-1- seq	TTTCCTTTCCCAAACCCTAACC
Rag2, OT-R2-2		
	OT-R2-2-F	TCAGACACAGAGGAAAACAAAA
	OT-R2-2-R	TGGGAGACAGCAAATGATGG
	OT-R2-2-seq	GACCTAAGCCTGGGTGTT