

Breeding Characters

Mnk1 and Mnk2 KO mice

RBRC01512 B6.129-Mknk1 <tm1 Fuku>

RBRC01513 B6.129-Mknk2 <tm1 Fuku>

RBRC01514 B6.129-Mknk1 <tm1 Fuku> Mknk2 <tm1 Fuku>

Inquiries: Kazuyuki Mekada, Ph.D.
(Experimental Animal Div., RIKEN BRC / animal@brc.riken.jp)

27-Sep-2013

Reproductive Performance (I)

Productive mating :

Strain Name Mating System	Pregnancy Rate	Number of pairs examined
B6-Mnk1 KO Heterozygote x Wild-type	100%	10
B6-Mnk2 KO Heterozygote x Wild-type	100%	8
B6-Mnk1/2 dKO Mnk1: Homozygote x Homozygote Mnk2: Homozygote x Homozygote	59%	54

B6-Mnk1 KO: Jul 2006 ~ Apr 2012

B6-Mnk2 KO: Sep 2006 ~ Apr 2012

B6-Mnk1/2 dKO: Mar 2011 ~ Jul 2013

*Number of females gave birth at least one time / Total number of females observed

Reproductive Performance (2)

Litter size :

Strain Name Mating System	Mean litter Size (pups)	Number of litters examined
B6-Mnk1 KO Heterozygote x Wild-type	4.9±0.4 (SE)	36
B6-Mnk2 KO Heterozygote x Wild-type	4.9±0.4 (SE)	37
B6-Mnk1/2 dKO Mnk1: Homozygote x Homozygote Mnk2: Homozygote x Homozygote	3.4±0.2 (SE)	59

B6-Mnk1 KO: Jul 2006 ~ Apr 2012

B6-Mnk2 KO: Sep 2006 ~ Apr 2012

B6-Mnk1/2 dKO: Mar 2011 ~ Jul 2013

*Total number of pups / Number of litters

Reproductive Performance (3)

Weaning rate :

Strain Name Mating System	Weaning Rate	Number of litters examined
B6-Mnk1 KO Heterozygote x Wild-type	88.4%	35
B6-Mnk2 KO Heterozygote x Wild-type	85.8%	34
B6-Mnk1/2 dKO Mnk1: Homozygote x Homozygote Mnk2: Homozygote x Homozygote	88.3%	57

B6-Mnk1 KO: Jul 2006 ~ Apr 2012

B6-Mnk2 KO: Sep 2006 ~ Apr 2012

B6-Mnk1/2 dKO: Mar 2011 ~ Jul 2013

*Number of pups weaned / Total number of pups