								Deletion	
Target	Injection	Embryos	Pups born/	Non-			Both LoxP4	between	Null coat
site	type	transferred	birthrate	transgenic	LoxP4	LoxP6	and LoxP6	target sites	color
Dock7	Cytoplasmic	174	20 (12%)	11/20	7/20	3/20	1/20 (5%)	10/20	5/19
cKO2				(55%)	(35%)	(15%)		(50%)	(26%)

Table S8. Frequency of CRISPR-Cas9-mediated loxP insertion in the *Dock7* cKO2 model. The loxP sites described in *Dock7* cKO2 model were introduced by cytoplasmic injection. Mice were screened by genotyping, for loxP4 and loxP6 sites, deletion of DNA between the Cas9 cut sites (deletion of exon 3-7), and coat color. The number of mice with the indicated genotype or phenotype is listed compared to the total number of mice analyzed. The percentage of mice with the indicated genotype or phenotype is listed in parentheses. Null coat color indicates diluted coat color with the presence of a white belly spot. Non-transgenic mice are defined as mice without loxP insertion. Amplification of DNA from tail/toe clips was performed for loxP4 (loxP4A F/R or loxP4B F/R which provided identical results and could be used interchangeably), loxP6 (loxP6A F/R), and cKO2Δ (cKO2 Δ F/R) indicating deletion of exons 3-7.