## Supplemental Table S3. Paxx<sup>2</sup> Xlf<sup>2</sup> embryos start dying after E14.5.

Embryos were genotyped by PCR analysis of DNA extracted from the yolk sacks. Day of vaginal plug was considered E0.5. Expected values represent the combined Mendelian percentages and numbers from several crosses involving different parental genotypes of the Paxx/Xlf mice at E10.5 (A) and E18.5 (B). The significant values of observed and expected genotype frequencies were calculated using the  $\chi_2$  and the representative data was graphed in Figure 3.

## A E14.5

Genotype		% Expected 9	% Observed	# Expected	# Observed
Paxx <sup>+/+</sup>	XIf +/+	0	0	0	0
	XIf +/-	12	3	4	1
	XIf -/-	16	13	5	4
Paxx <sup>+/-</sup>	XIf +/+	0	0	0	0
	XIf +/-	12	17	4	5
	XIf -/-	38	43	11	13
Paxx <sup>-/-</sup>	XIf +/+	0	0	0	0
	XIf +/-	6	7	2	2
	XIf -/-	16	17	5	5
TOTAL		100	100	30	30

## B E18.5

Genotyp	е	% Expected %	<b>6 Observed</b>	# Expected	# Observed
Paxx -/-	$XIf^{+/+}$	25	38	6	9
	XIf +/-	50	50	12	12
	XIf ⁻/-	25	13	6	3(2)
TOTAL		100	100	24	24