

**S1 Table. Chi-squared analysis of pups (p0 and p1) born in of  $N1^{RA/RA};N2^{RA/RA}$  x  $N1^{+/-};N2^{+/-}$  cross in mite-free housing**

		<i>expected</i>		<i>observed</i>		$\frac{(O-E)^2}{O}$
F1	$N1^{RA/-}; N2^{RA/-}$	25%	47.5	14	7.37%	23.63
	$N1^{RA/-}; N2^{+/RA}$	25%	47.5	47	24.74%	0.01
	$N1^{+/RA}; N2^{RA/-}$	25%	47.5	51	26.84%	0.26
	$N1^{+/RA}; N2^{+/RA}$	25%	47.5	78	41.05%	19.58
		100%	190	190	100%	43.47
Degree of freedom (# of genotypes -1)=3				CHISQ.DIST		$p=10^{-9}$