Table S3. Closed versus open neural tube phenotype among embryos from crosses between parents with various combinations of *Fz1*, *Fz2* and *Vangl2* alleles

		Neural tube		
		Closed	Open	Total
Parents:	$Fz1^{-/-} \times Vangl2^{Lp/+}$			
Progeny:	$Fz1^{+/-}$	34	0	34
	$Fz1^{+/-};Vangl2^{Lp/+}$	5	12	17
Parents:	$Fz2^{+/-} \times Vangl2^{Lp/+}$			
Progeny:	WT	27	0	27
	$Fz2^{+/-}$	19	0	19
	$Vangl2^{Lp/+}$	12	0	12
	$Fz2^{+/-};Vangl2^{Lp/+}$	3	6	9
Parents:	$Fz1^{+/-};Fz2^{+/-} \times Vangl2^{Lp/+}$			
Progeny:	$Vangl2^{Lp/+}$	9	0	9
	$Fz1^{+/-};Vangl2^{Lp/+}$	5	3	8
	$Fz2^{+/-};Vangl2^{Lp/+}$	6	4	10
	$Fz1^{+/-};Fz2^{+/-};Vangl2^{Lp/+}$	4	2	6
	All $Vangl2^{+/+}$ genotypes	52	0	52
Parents:	$Fz2^{+/-} \times Fz2^{+/-};Vangl2^{Lp/+}$			
Progeny:	$Vangl2^{Lp/+}$	3	0	3
	$Fz2^{+/-};Vangl2^{Lp/+}$	6	3	9
	$Fz2^{-/-};Vangl2^{Lp/+}$	0	5	5
	All $Vangl2^{+/+}$ genotypes	56	0	56

Note that the number of embryos recovered with some *Fz1*, *Fz2* and *Vangl2* mutant combinations is reduced relative to control littermates.