

Table S3. Organ laterality phenotypes in Z and MZ *bmp4* mutants

Genotype	Situs inversus [†]		Heterotaxia [§] (%)	<i>n</i>
	Situs solitus [†] (%)	(%)		
Z <i>bmp4</i> Y180*/+ IX	99	0	1	162
Z <i>bmp4</i> S355*/+ IX	99	0	1	83
Z <i>bmp4</i> C365S/+ IX	98	2	0	352
MZ <i>bmp4</i> Y180*-/-	89	7	4	152
MZ <i>bmp4</i> S355*-/-	99	1	0	148
MZ <i>bmp4</i> C365S-/-	100	0	0	94

Positions of the heart, liver and pancreas were determined for Z and MZ *bmp4* mutants at 48 hpf by RNA in situ hybridization.

Because zygotic mutants cannot be consistently identified by morphology, percentages for zygotic in-crosses contain both mutant and phenotypically wild-type siblings.

[†]Embryos with correct organ placement.

[§]Embryos with complete reversals in organ placement.

[§]Embryos with random positioning of organs about the L/R axis.