

**Table S1. Depletion of *rock2b* disrupts heart and gut laterality**

Embryos	Heart				Gut			
	<i>n</i>	Normal	Reversed	No looping	<i>n</i>	Normal	Reversed	Bilateral
Wild type	650	97%	1%	2%	390	98%	1%	1%
4.4 ng Control MO	74	98%	1%	1%	64	94%	3%	3%
0.8 ng <i>rock2b</i> MO-1	149	36%	15%	48%	149	46%	38%	16%
0.4 ng <i>rock2b</i> MO-1	214	57%	17%	26%	52	54%	35%	12%
0.4 ng <i>rock2b</i> MO-1 + 50 pg <i>GFP</i> RNA	128	48%	26%	26%	128	52%	32%	16%
0.4 ng <i>rock2b</i> MO-1 + 10 pg <i>rock2b</i> RNA	151	72%	21%	7%	151	60%	20%	20%
0.4 ng <i>rock2b</i> MO-1 + 25 pg <i>rock2b</i> RNA	117	79%	12%	9%	117	71%	14%	15%
0.4 ng <i>rock2b</i> MO-1 + 25 pg <i>CA-Rock</i> RNA	110	83%	12%	5%	82	80%	12%	7%
4.4 ng <i>rock2b</i> MO-2	151	68%	11%	21%	71	77%	11%	11%
4.4 ng <i>rock2b</i> MO-2 + 25 pg <i>CA-Rock</i> RNA	115	88%	6%	6%	117	88%	5%	7%