

Supplementary Table 3. Scoring of meis3 depletion experiments.

Gene expression analysis	Experiment	Momeis3		Control morpholino	
		Affected left side	Normal left side	Affected left side	Normal left side
ISH <i>pax8</i> NFst18/19	#1	9	8	4	17
	#2	9	12	0	3
	#3	18	5	2	13
	#4	15	5	2	19
	#5	16	4	3	19
Total (%)		67 (66.3)	34 (33.7)	11 (13.4)	71 (86.6)
ISH <i>lhx1</i> NFst18/19	#1	9	7	4	15
	#2	12	8	1	14
	#3	19	2	2	14
	#4	11	2	4	14
	#5	18	2	5	16
Total (%)		69 (76.7)	21 (23.3)	16 (18)	73 (82)
ISH <i>aldh1a2</i> NFst18/19	#1	6	5	2	17
	#2	14	8	0	21
	#3	13	2	4	10
	#4	22	2	12	9
Total (%)		55 (76.4)	17 (23.6)	18 (24)	57 (76)

A morpholino targeting *meis3* (Momesi3) or a control morpholino were injected into the left V2 blastomere of 8-cell stage embryos. Expression of *pax8*, *lhx1* and *aldh1a2* was analyzed at late neurula stage (NFst18-19). Expression patterns corresponding to the representative examples shown in Figs 3 and 4 are scored for every independent experiment.