

Table S1. Summary of results

Treatment	Markers													
	Pitx2	Alx4	MyoR	Tbx1	Twist	Myf5	paraxis	Pax3	Isl1	Nkx2.5	Cyp26C1	HoxB1	noggin	Mkp3/Pyst
RA	down	no response	down	down; response weaker than for Pitx2 and MyoR	no response	no response	no response	no response	no response in hm (down in cm)	no response in hm (down in cm)	no response	up at HH8 and later	no response	no response anterior, down in p/hm up in a/hm
Bmp	no response	up	up at HH9	down	no response	no response	down in p/hm	down in p/hm	up in hm at HH5-6, no response later	up in hm at HH5-6, no response later	down	no response	up	
noggin	no response	down	down	slightly up	no response	no response	slightly up	slightly up					down	
Fgf	down	down	up at HH9	up	no response	no response	no response	no response	no response in hm (up within endogenous Isl1 domain)	no response in hm	down	no response	up anterior, no response posterior	up
SU5402	up	no response	down	down	no response	no response	no response	no response						down
Fgf + Bmp			up already at HH7-8	upregulation by Fgf suppressed										

a/hm, anterior head mesoderm; cm, cardiac mesoderm; hm, head mesoderm; p/hm, posterior head mesoderm.