

Table S6 GO analysis of positive regulated genes in ES cell-derived Cardiac precursors cells Differentiation (GSE10970)

GO number	Description	P-value	Gene
GO:0035113	embryonic appendage morphogenesis	4.0E-7	BB131012,Bmp4,Dkk1,Msx1,Prrx1,Prrx2,Fbn2,Hhg1Twist,Wnt5a
GO:0030323	respiratory tube development	1.6E-6	Bmp4,Foxa1,Lama1,Lox,Mglap,Pdgfra,RBP,Hhg1Tcf21,1110020H15Rik,Wnt5a
GO:0045941	positive regulation of transcription	2.4E-6	Bcl3,Isl1,Klf4,Mm.215008.1,Smarcd3,BB131012,Bmp4,T,Egr1,Foxa1,Foxc1,Foxd1,Msx1,Inhba,Neurod1,Zac1,,rpplf,Mm.32654.1,Hhg1Tcf21,Zfhx1a
GO:0016477	cell migration	5.5E-5	Isl1,Foxc1,Gbx-2,Nrp,Mm.186992.1,Plat,Pf4,Nr2f1,AI561871,Apc,Hhg1Tgfb2,Twist
GO:0048812	neuron projection morphogenesis	8.1E-5	Isl1,Lhx2,Foxd1,Gbx-2,Nrp,AI561871,Apc,Clu,Slit2,Hhg1Tgfb2
GO:0060512	prostate gland morphogenesis	3.5E-4	AW146109,Bmp4,Foxa1,Hhg1Tnc
GO:0048667	cell morphogenesis involved in neuron differentiation	5.2E-4	Isl1,Lhx2,Foxd1,Gbx-2,Nrp,AI561871,Apc,Slit2,Hhg1Tgfb2
GO:0014033	neural crest cell differentiation	7.6E-4	Isl1,Foxc1,Gbx-2,NP2,Hhg1
GO:0015671	oxygen transport	3.1E-4	Hba-x,Hbb-bh1,Hba-a1,Hbb-y
GO:0045661	regulation of myoblast differentiation	6.7E-3	Tbx3,Bmp4,mrpplf
GO:0043066	negative regulation of apoptosis	1.1E-2	Bcl3,Tbx3,Cdkn1a,Foxc1,Msx1,Neurod1,Apc,Clu,Snail2
GO:0042325	regulation of phosphorylation	1.2E-2	Bmp4,Cav,Csf1,Cdkn1a,Cdkn1c,Pdgfrb,Pdgfc,Apc,Cish3,1110020H15Rik
GO:0055010	ventricular cardiac muscle morphogenesis	1.5E-2	Foxc1,Tnni1,Tnnt2
GO:0030239	myofibril assembly	2.4E-2	Myhca,1100001C23Rik,Tnnt2
GO:0005859	muscle myosin complex	5.7E-3	Myhca,1100001C23Rik,Myh7
GO:0007439	ectodermal digestive tract development	1.3E-2	1200010K03Rik,Hhg1,Wnt5a