

Supplementary information, Table S5 Comparison of the developmental signaling pathways significantly enriched by the target genes of endogenous and ectopically over-expressed Yamanaka factors in E14.1 and J1 mES cells. (“+” represents significant enrichment by the target genes of the specific Yamanaka factor)

	Development and signaling pathways	J1 bioChIP-on-chip data	E14.1 ChIP-on-chip data
Oct4	TGF-beta signaling pathway	+	+
	Jak-STAT signaling pathway	+	+
	Hedgehog signaling pathway	+	+
	Wnt signaling pathway	+	+
	Cell cycle	+	+
	MAPK signaling pathway	+	+
	p53 signaling pathway		+
	Focal adhesion		+
	Adherens junction		+
	Apoptosis		+
Sox2	Wnt signaling pathway	+	+
	TGF-beta signaling pathway	+	+
	Gap junction	+	+
	Axon guidance	+	+
	Cell cycle		+
	p53 signaling pathway		+
	Cytokine-cytokine receptor interaction		+
	Focal adhesion		+
	ErbB signaling pathway		+
	Jak-STAT signaling pathway	+	
	Notch signaling pathway	+	
	MAPK signaling pathway	+	
	Adherens junction	+	
	p53 signaling pathway	+	+
	Axon guidance	+	+
Klf4	Hedgehog signaling pathway	+	+
	Jak-STAT signaling pathway	+	+
	Gap junction	+	+
	Dorso-ventral axis formation		+
	Cell cycle	+	
	Wnt signaling pathway	+	
	Focal adhesion	+	
	ErbB signaling pathway	+	
	VEGF signaling pathway	+	
	Adherens junction	+	
	Tight junction	+	
	TGF-beta signaling pathway	+	

c-Myc	Cell cycle	+	+
	p53 signaling pathway	+	+
	Jak-STAT signaling pathway	+	+
	Apoptosis	+	+
	Wnt signaling pathway	+	+
	Notch signaling pathway		+
	Focal adhesion		+
	Dorso-ventral axis formation		+
	TGF-beta signaling pathway		+