

Gene Name	# of Boolean functions (serum-data)	# of Boolean functions (2i-data)	overlap Boolean functions	Reassign (serum-data)	Reassign (2i-data)	include-self-loop (serum-data)	include-self-loop (2i-data)
Esrrb	5	8	3				
Klf4	1	2	0				
Myc	1	1	1				
Nanog	5	4	4				
Nr0b1	32	2	2				
Pou5f1	383	742	348				
Sall4	2	2	2				
Sox2	5	12	5				
Stat3	1	2	1				
Tbx3	44	9	0				
Tcf3	2	2	1				
Zfp281	1	1	1				
Zfp42	94	75	75				
Zfx	1	1	1			YES	YES
Jarid2	1	1	0	YES			
Cdx2	2	1	1				
Eomes	197	66	66				
Fgf5	54	17	0				
Fgfr2	197	138	113				
Gata4	1	1	0	YES	YES		
Gata6	1	1	1				
Hand1	1	1	0	YES	YES		
Otx2	47	23771	0				
T	1	1	1				
Tead4	2	2	2				
Gli2	5	10	0				
Ncam1	18	5	5				
Ptpn11	1	1	0	YES			
Rai1	1	1	1				
Tgm2	197	28	24				

Table S4. Boolean function statistics

The table lists the number of total learned Boolean functions, auto-regulation and reassignments of links.