

Supplementary Data**Chromatin properties of cis-regulatory modules in ES cells probed by manipulation of transcription factors**

Alexei A. Sharov, Akira Nishiyama, Yong Qian, Dawood Dudekula, Dan L. Longo, David Schlessinger, and Minoru S.H. Ko

Supplementary Table S1. ChIP-seq data on binding of transcription factors and chromatin modifications in mouse ES cells

Transcription factor, chromatin mark	Cells	Peaks used	Tags used	Reference
Pou5f1	ES cells	1	0	(Marson et al. 2008)
Nanog	ES cells	1	0	(Marson et al. 2008)
Sox2	ES cells	1	0	(Marson et al. 2008)
Klf4	ES cells	1	0	(Chen et al. 2008)
Tcfcp2l1	ES cells	1	0	(Chen et al. 2008)
Stat3	ES cells	1	0	(Chen et al. 2008)
P300	ES cells	1	0	(Chen et al. 2008)
Smad1	ES cells	1	0	(Chen et al. 2008)
Tcf3	ES cells	1	0	(Marson et al. 2008)
Cdx2	ES cells, Cdx2 induced	1	0	(Nishiyama et al. 2009)
Myod1	Myoblasts	1	0	(Cao et al. 2010)
Sfp1	Macrophages	1	0	(Lefterova et al. 2010)
P300	ES cells	0	1	(Creyghton et al. 2010)
P300	ES cells	0	1	(Schnetz et al. 2010)
Chd7	ES cells	0	1	(Schnetz et al. 2010)
Med1	ES cells	0	1	(Kagey et al. 2010)
Med12	ES cells	0	1	(Kagey et al. 2010)
Nipbl	ES cells	0	1	(Kagey et al. 2010)
Smc1	ES cells	0	1	(Kagey et al. 2010)
Smc3	ES cells	0	1	(Kagey et al. 2010)
Rad21	ES cells	0	1	(Nitzsche et al. 2011)
Suz12	ES cells	0	1	(Chen et al. 2008)
Suz12	ES cells	0	1	(Ku et al. 2008)
Suz12	ES cells	0	1	(Young et al. 2011)
Ezh2	ES cells	0	1	(Ku et al. 2008)
Ring1b	ES cells	0	1	(Ku et al. 2008)
Mtf2	ES cells	0	1	(Li et al. 2010)
Jarid2	ES cells	0	1	(Li et al. 2010)
Setdb1	ES cells	0	1	(Bilodeau et al. 2009)

Ctcf	ES cells	0	1	(Handoko et al. 2011)
Brg1	ES cells	0	1	(Ho et al. 2011)
Mbd3	ES cells	0	1	(Yildirim et al. 2011)
H3K27ac	ES cells	0	1	(Creyghton et al. 2010)
H3K27me3	ES cells	0	1	(Ho et al. 2011)
H3K27me3	ES cells	0	1	(Mikkelsen et al. 2007)
H3K27me3	ES cells	0	1	(Young et al. 2011)
H3K36me3	ES cells	0	1	(Mikkelsen et al. 2007)
H3K4me1	ES cells	0	1	(Meissner et al. 2008)
H3K4me2	ES cells	0	1	(Meissner et al. 2008)
H3K4me3	ES cells	0	1	(Mikkelsen et al. 2007)
H3K4me3	ES cells	0	1	(Marks et al. 2009)
H3K9ac	ES cells	0	1	(Hezroni et al. 2011)
H3K9me3	ES cells	0	1	(Bilodeau et al. 2009) (Ab8898)
H3K9me3	ES cells	0	1	(Mikkelsen et al. 2007)
H3K9me3	ES cells	0	1	(Yuan et al. 2009)
H4K20me3	ES cells	0	1	(Mikkelsen et al. 2007)
Lamin B1 *	ES cells	n/a	n/a	(Kim et al. 2011)

*) Lamin B1 data was obtained using DAM-ID method with hybridization on a full-genome tiling arrays

Supplementary Table S2. Correlation matrix between sets of z-values (to evaluate the association between the change of expression of target genes and presence of factors at transcription factor binding sites) obtained with 7 types of analysis.

Method 1: Pearson correlation; uses average abundance of a factor in all TF binding sites for each target gene. Method 2: Pearson correlation; abundance of a factor is estimated at the TF binding site closest to the TSS of target gene. Method 3: Pearson correlation; uses the highest abundance of factor among TF binding sites associated with target gene. Method 4: Spearman correlation; uses the highest abundance of factor among TF binding sites associated with target gene. Methods 5-7: Multivariate regression (gene expression change is regressed against factor abundance at TF binding sites and distance from binding sites to TSS of target gene); factor abundance is estimated as in methods 1-3, respectively.

	Method 1	Method 2	Method 3	Method 4	Method 5	Method 6	Method 7
Method 1	1.000	0.982	0.976	0.981	0.959	0.953	0.940
Method 2	0.982	1.000	0.957	0.960	0.934	0.930	0.912
Method 3	0.976	0.957	1.000	0.970	0.922	0.972	0.906
Method 4	0.981	0.960	0.970	1.000	0.931	0.937	0.948
Method 5	0.959	0.934	0.922	0.931	1.000	0.963	0.979
Method 6	0.953	0.930	0.972	0.937	0.963	1.000	0.939
Method 7	0.940	0.912	0.906	0.948	0.979	0.939	1.000

Supplementary Table S3. Association between the response of target genes to manipulations of transcription factors (TFs) and presence of chromatin modifications and cofactors at TF binding sites

Z-values for the effect of cofactors and chromatin modifications estimated using 7 methods of analysis

Method 1: Pearson correlation; uses average abundance of a factor in all TF binding sites for each target gene
 Method 2: Pearson correlation; abundance of a factor is estimated at the TF binding site closest to the TSS of target gene
 Method 3: Pearson correlation; uses the highest abundance of factor among TF binding sites associated with target gene
 Method 4: Spearman correlation; uses the highest abundance of factor among TF binding sites associated with target gene
 Methods 5-7: Multivariate regression (gene expression change is regressed against factor abundance at TF binding sites and distance from binding sites to TSS of target gene); factor abundance is estimated as in methods 1-3, respectively.

Data transformation: $\log(\text{abs}(x_i))$, where x_i is the logratio of expression change of target gene i ; $\log(q_i + 0.5)$, where q_i is the enrichment ratio of a chromatin feature or cofactor at TF binding sites near gene i ; $\exp(-cdi)$ where $c=0.0001$ and di is distance from TF binding site(s) to TSS.

TFs	Manipulation of TFs	Up/Down regulation of targets	Method	H3K4me3	H3K4me2	H3K4me1	H3K9me3	H3K27me3	H3K36me3	H4K20me3	H3K27ac	H3K9ac	P300	Chd7	Smc1	Smc3	Med1	Med12	Nipbl	Rad21	Brg1	Ctcf	Setdb1	Suz12	Ring1b	Ezh2	Jarid2	Mtf2	Mdb3	No Lamin B1
Pou5f1	Induction	-1	1	-2.48	-0.25	1.49	0.24	1.98	-2.26	3.3	-0.28	-0.12	4.1	3.29	1.07	-0.54	2.39	2.47	0.57	3.07	1.16	-0.8	-0.74	1.08	0.61	0.18	-1.13	0.76	-2.92	1.74
Sox2	Induction	-1	1	-5.04	-3.37	-0.64	-2.18	3.04	-3.21	1.18	-3.14	-4.39	1.95	1.43	-0.51	-1.59	0.02	0.28	-0.99	0.52	0.67	-1.6	-0.93	-0.16	0.11	1.25	-0.8	0.07	-1.81	-1.64
Nanog	Induction	-1	1	-3.32	-2.88	-2.44	0.98	2.68	-3.89	-0.14	-4.18	-2.75	-1.84	-0.6	-1.54	-2.71	-2.21	-1.6	-1.71	-1.21	-0.27	-2.66	-2.4	0.69	-0.82	1.39	1.91	2.1	-1.26	-2.52
Tcf3	Induction	-1	1	1.33	1.57	-1.08	1.43	0.85	-2.9	1.46	1.46	1.79	4.1	4.72	2	0.26	3.39	3.72	3.07	3.09	4.62	1.19	1.52	0.37	-0.66	-0.23	0.17	0.92	-1.76	1.51
Klf4	Induction	-1	1	-5.41	-0.83	3.33	-0.56	8.49	1.61	1.32	-7.84	-10	0.98	0.51	0.11	-2.16	-4.43	-3.25	-4.69	4.75	-0.96	-1.94	-4.14	6.31	2.96	6.19	-0	5.05	-0.98	-1.44
Tcfcp2l1	Induction	-1	1	-2.32	-2.07	-0.47	0.18	2.28	-3.06	-1.96	-3.31	-2.72	0.19	0.49	-0.94	-1.36	-2.03	-1.07	-0.88	1.1	-0.44	-1.33	-1.27	2.19	3.07	1.45	0.4	3.64	-0.99	-1.09
Cdx2	Induction	-1	1	1.29	-0.64	2	0.67	1.86	0.49	1.49	1.67	0.7	3.26	0.93	1.76	0.85	2.25	0.7	2.28	1.44	-0.12	1.21	0.77	0.72	0.28	1.06	0.78	0.59	0.41	0.94
Myod1	Induction	-1	1	-6.62	-4.7	0.24	-3.85	6.19	0.2	1.44	-7.27	-6.37	-4.55	-3.67	-4.35	-4.03	-5.83	-6.18	-6.39	3.12	-4.95	-3.17	-5.76	2.15	1.39	0.81	-4.01	4.42	-3.87	-3.49
Sfp1	Induction	-1	1	-6.63	-4.6	-0.96	-4.87	2.84	1.15	1.93	-6.64	-6.71	-4.4	-4.29	-2.62	-2.98	-5.38	-5.69	-5.97	3.67	-4.68	-1.5	-6.17	-0.01	0.87	-0.77	-5.79	2.38	-4.53	-4.32
Pou5f1	Knockdown	-1	1	-2.2	1.54	2.16	0.03	3.05	-2.75	3.26	-0.26	-0.09	5.87	5.45	0.57	-2.26	3.13	3.29	1.17	2.02	3.42	-2.69	-0.74	0.92	1.92	1.11	-1.53	-0.77	-2.23	0.23
Sox2	Knockdown	-1	1	0.94	2.37	0.79	0.78	3.62	-2.2	2.34	2.64	2.41	7.34	4.3	3.94	1.99	5.28	5.44	4.09	4.48	4.81	1.49	3	1.37	-0.23	2.56	0.94	-1.69	0.07	2.41
Nanog	Knockdown	-1	1	3.56	2.4	1.3	1.51	3.72	-1.73	1.48	3.73	1.71	5.35	2.41	4.15	3.56	4.89	4.44	4.14	2.33	2.11	2.69	3.97	1.59	0.19	2.69	2.46	-0.13	1.96	4.27
Pou5f1	Induction	1	1	-4.07	-3.49	-0.1	-0.44	7.32	-3.38	-0.29	-7.37	-6.22	-2.21	-0.47	-2.04	-1.66	-4.41	-3.96	-3.98	1.36	-4.16	-1.81	-3.47	4.57	2	4.19	-0.47	3.84	-2.25	-3.44
Sox2	Induction	1	1	-3.75	-1.15	3.13	-0.9	6.71	-2.52	1.19	-3.62	-4.49	0.73	-1.1	-0.66	-1.52	-2.67	-1.67	-1.93	1.88	-0.66	-2.16	-2.03	3.29	0.6	3.47	0.05	1.05	-2.73	-0.93
Nanog	Induction	1	1	-0.73	-1.31	-1.32	0.9	1.74	-3.44	0.93	-1	-1.83	-0.13	-1.59	-0.71	-0.18	-1.08	-1.33	-0.55	0.83	-0.61	-0.51	-1.35	0.1	-0.49	1.21	0.56	0.61	-0.81	0.27
Tcf3	Induction	1	1	-0.69	-1.95	1.35	0.76	3.97	-1.22	2.06	-1.67	-2.78	-0.55	-2.14	0.23	-0	-0.7	-1.3	-0.27	0.71	-2.48	-2.12	0.6	0.7	0.59	2.15	0.73	-0.22	1.22	0.01
Klf4	Induction	1	1	-6.82	-2.16	4.18	-0.15	8.93	-1.66	0.38	-8.19	-7.33	-0.17	-1.41	-0.8	-2.49	-4.84	-4.87	-5.36	2.8	-2.85	-1.5	-5.01	5.8	5.64	5.32	-0.31	3.57	-1.59	1.08
Tcfcp2l1	Induction	1	1	-1.3	0.74	1.02	1	5.72	-4.17	-0.44	-1.91	-3.17	1.4	-1.85	0.62	-0.3	0.34	0.22	0.16	-2.18	-1.19	-1.64	-0.12	0.97	-0.25	2.37	0.24	-0.15	1.67	
Cdx2	Induction	1	1	0.38	-1.21	-0.41	3.18	9.83	-5.07	1.7	-0.1	-2.19	1.93	1.26	0.97	0.27	1.34	0.4	1.22	-1.22	-0.22	-1.88	2.28	4.83	2.51	6.56	2.65	-0.96	-0.28	0.47
Myod1	Induction	1	1	-5.43	-1.38	2.77	-1.42	8.6	-1.93	1.07	-5.69	-6.64	-2.29	-2.37	-1.84	-3.01	-4.01	-3.76	-4.33	0.91	-3.61	-2.36	-3.91	4.48	3.17	3.97	-2	1.94	-2.3	-1.74
Sfp1	Induction	1	1	-5.18	-1.64	2.82	-1.87	8.79	-1.87	-0.47	-5.42	-5.98	-2.32	-0.79	-2.59	-2.15	-4.68	-4.62	-4.9	1.38	-4.13	-1.24	-5.15	3.17	1.39	3.83	-1.97	2.65	-2.65	-1.44
Pou5f1	Knockdown	1	1	-3.21	-1.6	3.45	-0.26	4.16	-1.63	1.35	-3.4	-5.24	1.66	2.05	-0.48	-1.46	-2.07	-1.35	-1.77	1.1	0.16	-0.77	-1.53	2.42	0.22	0.92	-1.36	1.46	-1.36	-1.81
Sox2	Knockdown	1	1	-1.57	-2.09	-0.12	1.13	6.19	-2.78	-0.37	-3.09	-3.11	-1.06	-0.62	1.12	0.66	-1.83	-1.96	-1.3	1.37	-2.27	-0.39	-0.73	3.31	2.01	5.06	1.55	1.63	-0	-0.14
Nanog	Knockdown	1	1	-3.26	-3.03	-2.11	1.4	7.03	-4.06	-1.09	-6.31	-4.75	-0.71	0.49	-1.55	-2.72	-2.94	-2.06	-2.69	-0.59	0.1	-4.73	-2.08	3.96	1.7	4.3	2.14	2.48	-1.83	-1.71
Pou5f1	Induction	-1	2	-2.84	0.21	1.79	-0.62	2.24	-2.96	2.67	-0.6	-0.75	3.76	2.62	0.21	-1.43	1.74	1.77	0.01	2.72	-0.22	-1.59	-1.7	1.45	0.16	0.3	-1.69	0.51	-2.43	1.35
Sox2	Induction	-1	2	-5.43	-4	-0.48	-2.64	2.81	-3.15	0.62	-3.64	-5.34	1.77	0.6	-0.69	-1.68	-0.29	0.03	-1.13	0.9	0.58	-1.12	-1.26	0.18	0.49	1.63	-0.74	0.89	-1.62	-1.5
Nanog	Induction	-1	2	-2.65	-2.66	-3.41	1.79	2.95	-3.9	-0.07	-3.87	-1.95	-1.37	-0.52	-1.34	-2.52	-2.19	-1.43	-1.82	-0.49	-0.73	-2.09	-1.94	1.89	-0.27	2.17	2.55	3.12	-0.86	-2.71
Tcf3	Induction	-1	2	1.48	1.84	-0.96	1.49	1.56	-2.77	1.11	2.01	2.45	4.95	5.11	2.37	0.31	4.06	4.5	3.65	3.2	5.02	1.13	2.23	0.86	-0.71	0.62	0.97	0.9	-0.86	1.89
Klf4	Induction	-1	2	-6.17	-0.37	4.31	-0.71	9.14	2.42	1.38	-8.5	-10.2	0.38	0.31	-0.43	-3.03	-5	-4.02	-5.77	4.59	-1.44	-2.27	-4.79	6.5	3.63	6.19	-0.22	5.06	-1.74	-1.39
Tcfcp2l1	Induction	-1	2	-2.36	-1.54	0.81	0.81	3.3	-1.55	-0.88	-3.53	-2.49	-0.51	0.76	-1.02	-1.22	-2.13	-1.41	-1.24	0.78	-0.49	-1.36	-1.72	2.91	3.97	2.43	1.22	5.69	-0.78	-0.19
Cdx2	Induction	-1	2	1.38	-0.48	2.03	0.82	1.71	0.8	1.4	1.73	1.72	3.3	1.73	1.62	0.55	1.99	0.58	2.61	2.13	-0.15	0.79	0.65	1.38	0.13	2.06	0.65	-0.1	1.21	1.31
Myod1	Induction	-1	2	-6.08	-3.97	0.61	-3.2	5.92	0.59	1.66	-6.65	-6.34	-4.11	-2.74	-3.61	-3.2	-5.34	-5.56	-5.81	3.23	-4.2	-2.82	-4.54	2.33	1.78	1.6	-3.47	3.81	-4.15	-3.05
Sfp1	Induction	-1	2	-7.37	-5.15	-0.37	-5.47	2.57	1.92	2.76	-7.15	-6.9	-5.09	-4.55	-3.37	-3.47	-6.02	-6.21	-6.65	3.43	-5.32	-2.18	-6.93	0.13	1	-1.16	-6.28	2.71	-4.77	-4.58
Pou5f1	Knockdown	-1	2	-2.82	1.8	2.91	-0.23	3.8	-2.59	2.81	-0.44	-0.33	6.54	5.17	0.58	-2.26	3.38	3.81	1.29	2.27	3.34	-2.71	-0.51	1.8	1.47	1.56	-1.49	-0.05	-1.56	0.8
Sox2	Knockdown	-1	2	0.98	2.73	-0.12	1.76	5.1	-2.26	1.32	2.96	2.45	7.61	3.93	4.2	2	5.68	6.15	4.33	4.05	4.57	1.83	3.33	2.21	0.07	3.66	1.31	-1.17	1.44	2.89

Nanog	Knockdown	-1	2	3.36	2.59	0.48	2.14	4.86	-2.56	1.3	3.83	1.91	5.61	3.04	4.62	3.63	5.37	4.76	4.4	2.37	2.78	3.3	4.01	2.41	-0.2	3.21	2.79	-0.06	2.09	4.26
Pou5f1	Induction	1	2	-4.21	-2.61	0.56	-1.11	7.41	-3.63	-0.4	-7.53	-5.73	-2.18	0.14	-1.72	-2.04	-4.5	-3.99	-4.03	1.59	-3.87	-2	-3.38	4.98	3.61	4.88	-0.39	4.13	-1.99	-2.99
Sox2	Induction	1	2	-2.91	-0.5	2.92	0.13	7.46	-3.3	0.4	-3.54	-4.21	0.81	-0.8	-0.1	-0.58	-1.95	-1.39	-1.53	1.71	-1.04	-1.09	-1.27	4.04	1.86	4.52	1.41	2.69	-1.92	-0.81
Nanog	Induction	1	2	-0.51	-0.37	-0.54	1.08	1.2	-3.72	1.14	-0.23	-2.18	0.76	-0.33	0.28	0.24	-0.38	-0.51	0.17	1.86	0.02	0.47	-0.94	0.11	-0.32	1.28	0.82	-0.23	-0.14	0.59
Tcf3	Induction	1	2	-0.96	-2.38	1.21	0.49	3.61	-1.44	1.49	-1.99	-2.81	-0.58	-1.83	0.38	0.42	-0.72	-1.32	-0.28	0.98	-2.39	-1.67	0.61	0.6	0.08	2.05	1.04	0.15	0.81	0.55
Klf4	Induction	1	2	-6.87	-1.86	4	-0.66	9.33	-1.24	0.4	-8.48	-8.34	-0.86	-1.73	-1.35	-2.46	-5.73	-5.69	-6.14	2.38	-3.27	-1.2	-5.57	6	6	5.65	-0.07	3.68	-2.06	0.55
Tcfcp2l1	Induction	1	2	-0.98	1.34	2	0.76	5.45	-2.54	-0.61	-1.72	-3.02	1.24	-0.82	1.05	0.06	0.05	0.36	0.27	-1.43	-0.91	-0.85	-0.3	2.33	0.65	2.32	2.66	0.23	0.67	2.33
Cdx2	Induction	1	2	0.1	-1.59	-1.14	2.27	9.24	-4.56	1.68	-0.19	-2.31	1.47	0.43	0.17	-0.64	0.93	-0.15	0.64	-1.56	-0.97	-2.62	1.96	4.05	1.84	5.73	2.6	-0.16	-0.6	0.63
Myod1	Induction	1	2	-4.24	-0.28	3.29	0.43	8.72	0.22	0.8	-5.42	-6.34	-2.2	-2.53	-1.39	-2.28	-3.65	-3.17	-3.98	1.51	-2.74	-2.12	-2.79	5.78	4.83	5.65	-0.03	3.84	-2.06	-0.66
Sfpi1	Induction	1	2	-4.1	-0.24	3.73	-1.22	8.59	-0.91	0.13	-4.48	-5.25	-1.51	0.1	-1.75	-1.42	-4.04	-4.1	-4.13	0.91	-3.06	-0.81	-4.01	3.68	1.43	4.81	-0.51	3	-2.05	-0.42
Pou5f1	Knockdown	1	2	-2.95	-1.67	2.77	-0.03	4.23	-1.43	1.03	-3.8	-5.6	1.02	1.55	-0.37	-1.06	-2.43	-1.81	-2.3	1.14	-0.09	-0.4	-1.87	2.58	0.88	1.68	-0.54	1.34	-1.27	-1.99
Sox2	Knockdown	1	2	-2.43	-2.72	-0.12	0.58	5.79	-2.79	-0.69	-3.77	-3.64	-0.85	-0.68	1.1	0.84	-1.88	-1.91	-1.29	0.98	-2.1	-0.42	-0.74	2.55	1.55	4.13	1.1	2.24	-0.93	0.11
Nanog	Knockdown	1	2	-2.3	-2.49	-2.51	1.74	7.03	-3.39	-1.19	-5.74	-4.02	-0.08	1.18	-0.52	-1.97	-2.23	-1.3	-2.15	0.52	0.45	-3.69	-1.09	5.1	1.76	4.93	2.99	3.51	-1.01	-1.51
Pou5f1	Induction	-1	3	-1.78	0.21	1.89	0.55	2.42	-1.46	3.35	0.11	0.13	4.28	3.58	1.45	-0.25	3.14	3.11	1.26	2.72	1.32	-0.42	-0.33	1.86	1.35	0.52	-0.46	0.93	-1.69	2.25
Sox2	Induction	-1	3	-5.25	-3.63	-0.73	-2.67	2.72	-3.12	0.65	-3.05	-4.2	1.35	1.54	-1.06	-2.24	-0.27	-0.04	-1.16	0.01	0.59	-1.78	-1.19	-0.29	0.32	0.71	-0.82	-0.26	-1.5	-1.27
Nanog	Induction	-1	3	-2.18	-2.37	-1.32	1.31	2.85	-2.84	0.26	-3.44	-1.68	-1.1	-0.42	-0.72	-2.3	-1.49	-1.21	-1.12	-0.72	-0.03	-1.9	-1.67	1.58	-0.1	2.11	2.66	2.46	-0.07	-1.57
Tcf3	Induction	-1	3	1.78	2.08	-0.24	2.12	2.05	-1.94	2.07	2.11	2.63	4.81	5.78	2.76	1.31	3.95	4.21	3.66	3.54	5.53	2.23	2.57	1.61	0.54	1.56	1.38	2.37	-0.51	3.12
Klf4	Induction	-1	3	-5.92	-1.14	2.32	-0.61	7.93	1.22	0.68	-7.88	-9.75	1.28	0.85	0.57	-1.83	-4.45	-3.14	-4.72	4.07	-0.78	-1.37	-4.6	5.87	2.64	5.93	0.05	4.13	-1.35	-1.44
Tcfcp2l1	Induction	-1	3	-2.58	-1.63	-0.7	0.03	2.69	-3.49	-1.77	-3.78	-3.09	-0.39	0.65	-0.83	-1.24	-2.21	-1.4	-1.24	0.44	-0.32	-1.28	-1.23	2.65	3.39	2.52	0.99	3.66	-0.81	-0.65
Cdx2	Induction	-1	3	1.38	-0.73	1.82	0.57	1.74	0.31	1.27	1.55	0.23	2.67	0.98	1.72	0.8	1.89	0.66	2.24	1.08	-0.49	1.2	0.47	0.31	0.47	1.17	1.47	-0.19	-0.21	0.74
Myod1	Induction	-1	3	-6.46	-3.75	0.62	-3.1	5.87	0.05	2.08	-6.75	-6.12	-3.76	-2.7	-3.39	-2.93	-5.38	-5.62	-6.03	3.2	-3.95	-2.25	-5.06	2.88	1.92	1.78	-3.03	4.54	-2.67	-2.45
Sfpi1	Induction	-1	3	-6.69	-4.17	-0.09	-4.45	2.79	0.93	2	-6.55	-6.59	-4.48	-3.72	-2.06	-2.34	-5.42	-5.47	-6	3.73	-4.42	-0.95	-6.09	0.33	1.2	-0.27	-5.44	2.37	-4.34	-4.18
Pou5f1	Knockdown	-1	3	-1.63	2.7	2.71	1.47	4.13	-1.51	4.3	0.55	0.62	6.73	6.33	1.75	-1.13	3.99	4.39	2.4	2.39	4.13	-1.17	0.49	1.98	2.69	2.35	-0.91	0.48	-0.79	1.48
Sox2	Knockdown	-1	3	2.07	4.12	2.38	2.86	5.49	-0.35	3.98	3.87	3.93	8.58	6.31	5.34	3.23	6.66	6.88	5.42	5.2	6.08	2.81	4.13	2.93	1.81	4.39	2.3	0.27	1.63	4.26
Nanog	Knockdown	-1	3	4.52	3.9	2.69	2.64	5.39	-0.95	2.8	4.99	3.14	6.9	3.7	5.37	4.34	6.52	5.92	5.69	3.22	3.68	3.84	4.63	3.62	2.61	4.81	3.57	1.82	2.96	5.68
Pou5f1	Induction	1	3	-4.13	-3.09	0.2	-0.42	7.23	-2.96	0.33	-6.84	-5.76	-1.77	-0.12	-1.64	-1.67	-4.19	-3.46	-3.67	1.21	-3.32	-1.73	-3.39	4.98	2.98	4.46	-0.22	4.01	-1.74	-2.98
Sox2	Induction	1	3	-2.74	-0.02	3.55	0.51	7.53	-1.45	1.84	-2.46	-3.26	1.8	0.15	0.48	-0.3	-1.54	-0.47	-0.83	2.72	1.43	-0.41	-0.9	4.31	2.4	4.87	1.61	2.35	-1.14	0.76
Nanog	Induction	1	3	-1.28	-1.53	-1.44	0.15	0.88	-4.03	0.41	-1.18	-1.83	-0.61	-1.52	-0.78	-0.39	-1.09	-1.33	-0.82	0.34	-0.77	-0.83	-1.57	-0.1	-0.6	0.71	0.12	0.38	-0.84	0.3
Tcf3	Induction	1	3	-0.47	-1.64	1.51	0.94	3.99	-0.99	2.14	-1.52	-2.35	-0.29	-1.7	0.35	0.07	-0.58	-1	-0.08	0.88	-2.11	-1.64	0.71	0.74	0.47	2.22	1.06	0.2	1.32	0.18
Klf4	Induction	1	3	-6.99	-1.65	3.59	0.32	9.16	-1.98	0.67	-7.89	-6.8	-0.1	-1.06	-0.7	-1.77	-4.59	-4.75	-5.15	2.84	-2.54	-0.68	-4.88	6.35	5.99	5.65	0.14	3.38	-1.31	0.95
Tcfcp2l1	Induction	1	3	-1.11	0.74	0.62	1.49	4.96	-3.54	-0.15	-1.49	-2.72	1.78	-1.13	0.76	-0.2	0.77	0.69	0.58	-1.81	-0.88	-1.06	-0.02	1.18	0.09	2.51	2.63	0.32	0.54	1.41
Cdx2	Induction	1	3	1.03	-0.07	0.78	3.7	9.94	-3.93	2.64	0.52	-0.85	2.57	2.21	1.66	0.68	1.9	1.35	1.88	-0	0.79	-0.78	2.89	5.38	3.55	7.72	3.54	0.26	0.86	1.92
Myod1	Induction	1	3	-3.9	0.3	3.52	0.51	8.9	-1.23	2.24	-4.49	-5.31	-0.39	-0.52	0.29	-0.44	-2.52	-2.2	-2.88	2.64	-1.4	-0.15	-2.47	5.69	5.04	5.32	0.58	3.19	-1.01	0.29
Sfpi1	Induction	1	3	-4.33	-0.34	3.81	-0.62	9.14	-1.11	1.55	-4.53	-5.01	-1.33	0.34	-0.71	-0.02	-3.62	-3.43	-3.98	3.2	-2.57	0.49	-3.79	4.93	2.78	5.3	-0.19	3.87	-1.31	0.37
Pou5f1	Knockdown	1	3	-2.97	-1.13	3.47	0.32	4.6	-0.92	1.82	-2.91	-4.65	2.18	2.62	0.3	-0.82	-1.56	-0.73	-1.07	1.75	0.71	0.2	-1.23	2.82	1.18	1.68	-0.41	2.01	-0.7	-0.39
Sox2	Knockdown	1	3	-1.38	-1.96	-0.06	0.7	5.85	-2.76	-0.48	-2.85	-3.04	-0.6	-0.31	1.07	0.51	-1.44	-1.68	-0.7	1.49	-1.98	-0.29	-0.36	3.11	2.44	4.75	1.69	1.56	-0.21	0.32
Nanog	Knockdown	1	3	-2.52	-2.72	-1.48	1.39	7.26	-3.93	-0.43	-5.64	-4.26	-0.36	1.47	-0.85	-2.38	-2.37	-1.45	-2.05	-0.21	0.29	-3.8	-1.62	4.24	1.84	4.83	3.47	2.9	-1.29	-1.29
Pou5f1	Induction	-1	4	-2.08	-0.37	0.8	0.48	1.47	-1.97	3.01	-0.58	-0.08	3.28	3.79	0.82	-0.69	1.43	1.8	0.09	2.59	0.99	-1.24	-0.36	1.05	0.28	0.08	-0.69	-0.08	-2.05	1.96
Sox2	Induction	-1	4	-3.56	-2.72	-0.21	-1.03	2.21	-2.31	1.68	-2.31	-3.79	2.37	1.85	0.32	-0.87	0.36	0.46	-0.27	0.83	1.08	-1.76	-0.19	0.14	0.3	0.93	-0.88	-0.4	-0.76	-1.44
Nanog	Induction	-1	4	-3.32	-3.07	-2.6	0.7	2.13	-3.65	-0.32	-3.96	-2.21	-1.76	-1.09	-1.51	-2.67	-2.22	-1.68	-1.81	-1.17	-0.71	-2.31	-2.14	0.27	-0.79	0.79	0.65	1.66	-1.85	-2.81
Tcf3	Induction	-1	4	1.49	1.74	-1.88	1.81	-0.36	-1.9	1.89	1.44	1.59	3.96	4.86	1.96	0.51	3.45	3.86	3.27	3.52	4.88	2.18	1.27	0.03	-0.84	-0.62	0.8	1.36	-1.51	1.2
Klf4	Induction	-1	4	-5.17	-0.03	2.67	-0.36	7.36	1.97	1.04	-7.63	-9.05	0.03	-0.05	0.86	-1.48	-4.47	-3.02	-4.06	4.15	-0.63	-1.9	-3.63	5.1	1.84	4.89	-0.62	3.56	-0.61	-0.54
Tcfcp2l1	Induction	-1	4	-2.26	-1.89	-0.3	0.38	2.04	-2.93	-1.9	-3.47	-3.48	0.32	-0.03	-1.28	-2	-1.89	-1.02	-1.03	0.79	-0.16	-1.82	-1.62	2.38	2.93	0.79	-0.18	3.12	-1.62	-1.18
Cdx2	Induction	-1	4	0.98	-0.49	2.26	0.42	2.96	1.03	1.08	1.97	1.05	3.16	0.79	2.16	1.24	2.24	0.29	2.13	1.81	-0.46	1.94	0.55	1.19	-0.08	1.48	1.76	0.48	0.65	0.57
Myod1	Induction	-1	4	-6.51	-4.86	-0.31	-3.89	7.26	0.75	1.34	-7.25	-6.48	-5.04	-4.23	-5.38	-5.66	-6.15	-6.32	-6.64	2.39	-5.2	-4.62	-6.37	1.78	1.64	-0.03	-4.8	4.33	-4.37	-3.79
Sfpi1	Induction	-1	4	-5.68	-3.93	-1.05	-4.05	3.82	2.08	1.75	-5.89	-																		

Cdx2	Induction	1	4	0.68	-0.8	-0.08	2.97	9.6	-4.16	1.63	0.9	-2.89	2.25	0.84	1.33	0.21	1.67	0.1	1.23	-1.73	-0.59	-2.14	2.79	2.79	1.61	5.2	1.86	-2.06	-1.03	0.32
Myod1	Induction	1	4	-4.09	-1.29	3.19	-0.78	8.66	-1.28	0.25	-5.26	-6.12	-2.48	-2.19	-1.7	-2.68	-3.36	-3.49	-4	1.56	-3.68	-1.74	-3.39	4.14	2.46	3.22	-2.42	2.15	-2.89	-1.28
Sfp1	Induction	1	4	-4.06	-1.31	3.28	-1.95	8.11	-0.97	-0.21	-4.38	-5.01	-2.02	-0.94	-2.14	-1.95	-3.82	-3.87	-4	1.3	-3.97	-0.7	-4.62	2.31	1.05	2.55	-2.07	1.86	-2.01	-0.67
Pou5f1	Knockdown	1	4	-1.64	-1.4	2.73	0.34	5.64	-0.8	1.72	-2.71	-4.16	1.92	2.51	0.45	-0.48	-1.45	-0.9	-1	2.3	0.41	-0	-1.38	2.64	0.43	1.1	-0.51	1.24	-0.87	-1.33
Sox2	Knockdown	1	4	-0.75	-1.72	-0.56	1.69	6.34	-2.33	0.08	-2.91	-2.89	-0.4	-0.49	1.3	0.78	-1.55	-1.85	-0.95	0.97	-2.16	-0.91	-0.73	3.1	2.3	4.84	1.61	1.06	0.23	-0.33
Nanog	Knockdown	1	4	-3	-3.3	-3.03	1.69	6.04	-4.16	-0.95	-5.81	-4.37	-0.63	0.54	-1.49	-2.99	-2.49	-1.84	-2.74	-1.01	0.14	-5.37	-1.99	2.53	1	3.34	0.59	1.72	-2.19	-2.46
Pou5f1	Induction	-1	5	-2.62	-0.13	1.43	0.34	2	-2.29	3.28	-0.13	0.04	4.21	3.31	1.23	-0.45	2.69	2.72	0.75	3.04	1.22	-0.72	-0.63	1.11	0.62	0.24	-1.05	0.71	-2.92	1.92
Sox2	Induction	-1	5	-4.88	-3.08	-0.85	-1.91	3.23	-3.17	1.04	-2.82	-4.11	2.1	1.54	-0.19	-1.32	0.45	0.64	-0.6	0.47	0.85	-1.32	-0.53	-0.03	0.21	1.54	-0.33	0	-1.52	-1.33
Nanog	Induction	-1	5	-3.9	-3.28	-2.6	0.89	2.46	-3.91	-0.02	-4.36	-2.9	-2.03	-0.81	-1.8	-2.96	-2.45	-1.83	-1.92	-1.32	-0.34	-2.88	-2.64	0.43	-1	1.13	1.61	2.01	-1.52	-2.87
Tcf3	Induction	-1	5	-0.41	0.45	-0.86	0.97	0.33	-2.96	1.94	0.5	0.65	3.74	4.56	1.43	-0.3	2.69	3.19	2.47	3.56	4.38	0.52	0.78	-0.08	-1.04	-0.76	-1.1	0.77	-2.4	0.79
Klf4	Induction	-1	5	-4.41	-0.06	2.08	0.94	8.59	0.85	0.66	-7.18	-9.46	0.92	0.36	0.96	-1.27	-3.6	-2.43	-3.79	3.92	-0.34	-1.29	-2.98	6.56	3.11	6.71	2.14	4.48	0.47	-1.16
Tcfcp2l1	Induction	-1	5	-0.56	-0.98	-0.79	2.09	3.94	-3.57	-2.77	-2.45	-2.02	0.64	0.84	0.1	-0.46	-1.13	-0.23	0.2	0.55	0.21	-0.54	-0.01	3.83	4.07	3.04	2.76	4.02	0.49	-0.32
Cdx2	Induction	-1	5	1.42	-0.47	2.16	0.74	1.93	0.52	1.48	1.78	0.85	3.32	1	1.83	0.91	2.37	0.79	2.36	1.44	-0.04	1.33	0.83	0.72	0.28	1.05	0.88	0.59	0.44	1.07
Myod1	Induction	-1	5	-3.44	-2.03	0.37	-0.97	5.97	-1.3	-0.21	-4.61	-4	-2.05	-1.56	-1.67	-1.65	-2.98	-3.45	-3.63	1.98	-2.36	-0.83	-3.03	2.6	1.63	2.11	-0.44	3.24	-1.47	-1.6
Sfp1	Induction	-1	5	-3.44	-1.48	-0.56	-2.13	1.78	-0.04	0.96	-3.73	-3.86	-1.77	-1.61	0.16	-0.67	-2.27	-2.73	-3	3.16	-1.74	0.55	-3.44	-0.03	0.69	0.34	-2.85	1.15	-2.38	-2.21
Pou5f1	Knockdown	-1	5	-3.05	1.36	2.3	-0.16	2.97	-2.74	3.41	-0.59	-0.39	5.82	5.4	3.37	-2.57	3.03	3.19	0.97	2.14	3.34	-3	-1.09	0.84	1.87	0.99	-2.06	-0.68	-2.6	0.02
Sox2	Knockdown	-1	5	-1.06	1.35	1.18	0.13	3.47	-2.3	2.77	1.37	1.1	6.96	3.95	3.26	1.4	4.31	4.58	3.15	4.83	4.43	0.71	1.99	1.22	-0.43	2.11	-0.37	-1.42	-0.81	1.38
Nanog	Knockdown	-1	5	1.74	0.87	0.88	0.73	3.43	-2.08	1.58	2.33	0.17	4.55	1.74	3.12	2.7	3.76	3.37	3.05	2.6	1.43	1.89	2.83	1.08	-0.27	2.13	1.13	0.29	1.01	3.36
Pou5f1	Induction	1	5	-3.75	-3.12	-0.45	-0.03	7.7	-3.58	-0.57	-7.22	-6	-2.07	-0.39	-1.62	-1.22	-4.08	-3.63	-3.63	1.19	-4.01	-1.37	-3.07	4.87	2.14	4.72	0.32	3.7	-1.81	-3.13
Sox2	Induction	1	5	-4.17	-1.21	3.15	-0.92	6.74	-2.52	1.21	-3.76	-4.7	0.73	-1.11	-0.67	-1.54	-2.73	-1.71	-1.97	1.89	-0.67	-2.2	-2.09	3.31	0.59	3.39	0.03	1.06	-2.79	-0.96
Nanog	Induction	1	5	-1.07	-1.59	-1.4	0.74	1.59	-3.48	1.05	-1.22	-2.09	-0.25	-1.62	-0.88	-0.31	-1.31	-1.53	-0.71	0.85	-0.67	-0.62	-1.53	-0.05	-0.53	1.04	0.3	0.57	-1	0.1
Tcf3	Induction	1	5	0.21	-1.44	1.15	0.96	4.51	-1.32	1.68	-1.37	-2.37	-0.53	-2.08	0.54	0.24	-0.37	-1.07	-0.05	0.5	-2.42	-1.8	0.86	1.18	0.85	2.72	1.55	-0	1.81	0.47
Klf4	Induction	1	5	-6.42	-1.6	3.4	0.92	9.35	-2.3	-0.31	-7.71	-6.85	-0.3	-1.46	-0.23	-1.92	-4.31	-4.38	-4.77	2.02	-2.45	-1.16	-4.28	6.34	5.94	5.93	1.16	3.26	-0.71	1.39
Tcfcp2l1	Induction	1	5	-3.19	-0.3	1.15	-0.01	5.31	-3.92	0.03	-2.97	-4.1	0.99	-2.21	-0.2	-1.07	-0.52	-0.54	-0.69	-1.66	-1.7	-2.11	-1.18	0.54	-0.49	1.94	1.05	0.46	-1	1.07
Cdx2	Induction	1	5	-0.1	-1.8	-0.89	2.96	9.59	-5.12	1.68	-0.43	-2.64	1.7	0.94	0.62	-0.02	1.01	0	0.93	1.16	-0.52	-2.15	2.03	4.65	2.42	6.35	2.25	-1.12	-0.48	0.13
Myod1	Induction	1	5	-6.9	-1.4	2.8	-1.44	8.67	-2.06	1.01	-6.47	-7.02	-2.37	-2.42	-1.89	-3.13	-4.48	-4.19	-4.84	0.87	-3.85	-2.39	-4.32	4.62	3.21	4.16	-2.22	1.91	-2.39	-1.71
Sfp1	Induction	1	5	-6.1	-1.6	2.91	-1.84	8.78	-1.96	-0.58	-6.03	-6.44	-2.32	-0.64	-2.61	-2.1	-5.1	-5.05	-5.34	1.31	-4.35	-1.14	-5.61	3.19	1.38	3.95	-1.99	2.59	-2.68	-1.35
Pou5f1	Knockdown	1	5	-1.51	-0.57	2.67	0.65	4.62	-1.97	0.76	-2.34	-4.25	1.97	2.13	0.53	-0.51	-0.93	-0.31	-0.67	0.59	0.64	0.22	-0.31	2.95	0.44	1.7	0.3	1.03	-0.24	-0.93
Sox2	Knockdown	1	5	-0.74	-1.63	-0.33	1.46	6.54	-2.8	-0.58	-2.68	-2.65	-1.02	-0.55	1.53	1.08	-1.4	-1.61	-0.9	1.25	-2.15	0.06	-0.28	3.63	2.12	5.58	2.35	1.48	0.41	0.22
Nanog	Knockdown	1	5	-3.49	-3.17	-2.11	1.39	7.2	-4.07	-1.07	-6.4	-4.83	-0.73	0.48	-1.62	-2.79	-3.02	-2.11	-2.76	-0.59	0.09	-4.85	-2.13	4.01	1.69	4.4	2.2	2.48	-1.89	-1.79
Pou5f1	Induction	-1	6	-3.36	0.26	1.82	-0.62	2.26	-2.97	2.69	-0.63	-0.78	3.84	2.64	0.25	-1.48	1.93	1.92	0.05	2.73	-0.21	-1.6	-1.8	1.47	0.17	0.33	-1.83	0.5	-2.54	1.42
Sox2	Induction	-1	6	-5.1	-3.57	-0.73	-2.27	3.13	-3.13	0.35	-3.17	-4.96	2.04	0.82	-0.23	-1.27	0.33	0.56	-0.57	0.8	0.92	-0.79	-0.69	0.4	0.58	2.08	-0.08	0.78	-1.16	-1.06
Nanog	Induction	-1	6	-3.68	-3.39	-3.64	1.52	2.53	-3.88	0.12	-4.25	-2.27	-1.66	-0.9	-1.81	-2.99	-2.66	-1.86	-2.26	-0.66	-0.95	-2.4	-2.37	1.47	-0.55	1.71	2.05	2.98	-1.3	-3.26
Tcf3	Induction	-1	6	-1.06	0.11	-0.74	0.73	0.61	-2.83	1.66	0.58	0.84	4.26	4.67	1.37	-0.77	2.85	3.54	2.59	3.51	4.53	0.09	0.95	-0.01	-1.32	-0.42	-0.87	0.61	-1.91	0.81
Klf4	Induction	-1	6	-4.72	0.57	2.78	1.11	9.19	1.39	0.54	-7.52	-9.43	0.41	0.22	0.7	-1.88	-3.83	-2.88	-4.6	3.51	-0.56	-1.44	-3.29	6.78	3.81	6.73	2.41	4.29	0.07	-1.05
Tcfcp2l1	Induction	-1	6	-0.56	-0.23	0.44	2.89	4.9	-2.23	-1.73	-2.49	-1.69	0.18	1.4	0.19	-0.17	-1.05	-0.31	0.01	0.2	0.41	-0.55	-0.38	4.63	5.18	4.25	3.91	5.97	0.86	0.71
Cdx2	Induction	-1	6	1.53	-0.23	2.2	0.9	1.82	0.78	1.37	1.82	1.9	3.34	1.8	1.64	0.58	2.09	0.67	2.67	2.08	-0.06	0.95	0.7	1.36	0.07	2.01	0.82	-0.05	1.24	1.43
Myod1	Induction	-1	6	-3.59	-1.68	0.47	-0.64	6.06	-0.91	0.23	-4.51	-4.55	-1.96	-0.87	-1.31	-1.21	-3.03	-3.3	-3.57	2.11	-2	-0.96	-2.15	3.01	2.06	2.9	-0.47	2.85	-2.11	-1.52
Sfp1	Induction	-1	6	-4.35	-2.04	0.02	-2.62	1.98	0.52	1.86	-4.29	-4.11	-2.46	-1.92	-0.61	-1.16	-2.98	-3.3	-3.78	2.89	-2.42	-0.15	-4.22	0.52	0.96	0.34	-3.32	1.54	-2.5	-2.47
Pou5f1	Knockdown	-1	6	-4.92	1.22	3.34	-0.83	3.54	-2.47	3.14	-1.42	-1.21	6.3	5.02	-0.05	-3.04	2.89	3.38	0.63	2.47	3.02	-3.3	-1.4	1.52	1.29	1.16	-2.68	0.15	-2.39	0.7
Sox2	Knockdown	-1	6	-2.38	0.89	0.41	0.66	4.43	-2.35	1.85	0.82	0.28	6.83	3.25	2.91	0.76	3.97	4.67	2.7	4.27	3.67	0.74	1.51	1.53	-0.4	2.52	-0.91	-0.91	-0.1	1.4
Nanog	Knockdown	-1	6	0.44	0.34	0.32	0.69	4.1	-2.72	1.65	1.59	-0.37	4.35	1.84	3.01	2.19	3.55	3.02	2.66	2.67	1.59	2.25	2.24	1.68	-0.8	2.33	0.73	0.45	0.86	2.99
Pou5f1	Induction	1	6	-4.37	-2.36	0.3	-0.79	7.81	-3.81	-0.63	-7.71	-5.71	-2.07	0.2	-1.41	-1.75	-4.4	-3.83	-3.88	1.46	-3.74	-1.74	-3.18	5.33	3.78	5.47	0.22	4.05	-1.69	-2.78
Sox2	Induction	1	6	-4.52	-1.32	3.08	-0.24	7.18	-3.25	0.68	-4.39	-5.15	0.61	-1.1	-0.58	-1.01	-2.59	-1.94	-2.09	1.8	-1.33	-1.46	-1.88	3.72	1.61	4.15	0.67	2.67	-2.51	-1.29
Nanog	Induction	1	6	-0.65	-0.45	-0.56	1.06	1.17	-3.74	1.17	-0.3	-2.33	0.73	-0.35	0.24	0.2	-0.46	-0.58	0.12	1.85	-0.01	0.45	-1.02	0.07	-0.34	1.26	0.79	-0.23	-0.19	0.55
Tcf3	Induction	1	6	-0.09	-1.87	1.03	0.81	4.19	-1.52	1.13	-1.67	-2.44	-0.5	-1.72	0.73	0.72														

Sox2	Induction	-1	7	-4.83	-3.25	-0.97	-2.41	2.87	-3.17	0.38	-2.78	-3.63	1.37	1.51	-0.82	-1.98	-0.01	0.12	-0.86	-0.15	0.65	-1.61	-0.82	-0.24	0.34	0.9	-0.47	-0.35	-1.26	-1.14
Nanog	Induction	-1	7	-2.61	-2.6	-1.35	1.12	2.1	-2.82	0.52	-3.65	-1.97	-1.19	-0.56	-0.88	-2.42	-1.55	-1.32	-1.14	-0.84	-0.05	-2.03	-1.84	0.95	-0.36	1.55	2.12	2.23	-0.17	-1.6
Tcf3	Induction	-1	7	0.01	1.01	0.14	1.7	1.39	-1.84	2.66	1.24	1.67	4.68	5.82	2.39	0.95	3.51	3.89	3.23	4.18	5.54	1.68	1.82	1.04	0.19	0.87	0.05	2.35	-1.11	2.52
Klf4	Induction	-1	7	-4.17	-0.71	1.43	0.71	7.94	0.53	-0.11	-6.64	-8.92	0.71	0.29	1.11	-1.15	-3.65	-2.57	-3.83	3.35	-0.6	-1.02	-3.33	5.95	2.62	6.2	2.07	3.52	0.08	-1.37
Tcfcp2l1	Induction	-1	7	-1.31	-0.86	-1.12	1.06	3.74	-4.27	-2.73	-2.91	-2.71	-0.44	0.61	-0.28	-0.87	-1.68	-0.94	-0.52	0.06	-0.16	-0.97	0.04	3.8	4.1	3.35	2.74	3.8	0.24	-0.19
Cdx2	Induction	-1	7	1.54	-0.62	1.95	0.59	1.81	0.32	1.27	1.64	0.21	2.7	0.98	1.74	0.83	1.97	0.68	2.25	1.08	-0.44	1.29	0.5	0.3	0.44	1.17	1.48	-0.21	-0.21	0.81
Myod1	Induction	-1	7	-3.75	-1.81	0.33	-0.85	5.97	-1.65	0.18	-4.58	-4.11	-2.07	-1.46	-1.58	-1.43	-3.24	-3.62	-3.9	2.1	-2.09	-0.82	-2.94	3.31	2	2.72	-0.19	3.48	-0.62	-1.21
Sfp1	Induction	-1	7	-3.18	-0.97	-0.23	-1.69	1.97	-0.44	0.69	-3.49	-3.54	-2.18	-1.25	0.28	-0.56	-2.4	-2.33	-3.14	2.93	-1.3	0.63	-3.46	0.32	0.72	0.63	-2.22	0.93	-2.6	-2.25
Pou5f1	Knockdown	-1	7	-1.64	2.6	3.07	1.52	3.86	-1.4	4.6	0.6	0.61	6.69	6.4	1.68	-1.09	3.92	4.24	2.39	2.76	4.11	-1.17	0.18	1.84	2.65	2.13	-1.4	0.76	-1.14	1.22
Sox2	Knockdown	-1	7	0.49	3.41	2.81	2.47	5.14	-0.13	4.53	2.92	2.97	8.56	6.32	4.98	2.98	6.02	6.4	4.87	5.74	6.08	2.51	3.25	2.79	1.79	3.9	0.95	0.68	0.94	3.53
Nanog	Knockdown	-1	7	2.72	2.59	2.63	2.16	4.92	-0.99	3.34	3.79	1.9	6.6	3.53	4.81	3.79	5.84	5.28	5.04	3.8	3.44	3.42	3.87	3.21	2.29	4.19	2.26	2.31	2.27	5.04
Pou5f1	Induction	1	7	-3.61	-2.83	-0.1	-0.12	7.5	-3.25	-0.04	-6.33	-5.37	-1.82	-0.18	-1.25	-1.27	-3.79	-3.1	-3.17	1.07	-3.29	-1.42	-3.06	5.21	2.98	4.75	0.53	4	-1.45	-2.83
Sox2	Induction	1	7	-3.04	-0.22	3.6	0.45	7.33	-1.5	1.79	-2.44	-3.37	1.8	0.15	0.45	-0.33	-1.48	-0.43	-0.8	2.72	1.43	-0.43	-0.85	4.14	2.36	4.76	1.21	2.38	-1.17	0.72
Nanog	Induction	1	7	-1.49	-1.68	-1.46	0.08	0.86	-4.03	0.5	-1.4	-1.97	-0.63	-1.47	-0.91	-0.42	-1.23	-1.45	-0.87	0.45	-0.76	-0.94	-1.66	-0.25	-0.6	0.59	-0.15	0.38	-0.96	0.24
Tcf3	Induction	1	7	0.42	-1.21	1.29	1.14	4.52	-1.12	1.7	-1.31	-1.99	-0.44	-1.77	0.58	0.25	-0.42	-0.94	-0.02	0.62	-2.22	-1.34	0.89	1.23	0.78	2.84	1.77	0.34	1.77	0.48
Klf4	Induction	1	7	-6.66	-1.37	3.03	1.47	9.36	-2.82	-0.01	-7.21	-6.04	-0.64	-1.43	-0.47	-1.5	-4.19	-4.43	-4.68	2.25	-2.43	-0.63	-4.01	6.64	6.07	6	1.38	3.09	-0.64	1.03
Tcfcp2l1	Induction	1	7	-2.18	0.33	1.21	0.9	4.49	-3.14	0.62	-1.84	-3.02	2.02	-0.9	0.45	-0.34	0.63	0.58	0.42	-1.11	-0.85	-1.1	-0.46	0.55	-0	2.02	1.57	0.76	-0.04	1.2
Cdx2	Induction	1	7	0.61	-0.51	0.52	3.59	9.61	-3.92	2.67	0.22	-1.13	2.45	2.04	1.54	0.58	1.67	1.16	1.68	0.07	0.64	-0.9	2.73	5.27	3.53	7.54	3.15	0.16	0.8	1.71
Myod1	Induction	1	7	-4.93	0.19	3.6	0.23	8.65	-1.25	1.89	-4.64	-5.25	-0.16	-0.23	0.6	-0.33	-2.44	-2.34	-3.18	2.6	-1.26	-0.05	-2.66	5.44	4.93	5.08	0.22	3.54	-0.96	0.37
Sfp1	Induction	1	7	-5.46	-0.58	3.79	-0.65	9.09	-1.11	1.61	-5.17	-5.11	-1.42	0.6	-0.74	-0.06	-4.07	-3.83	-4.58	3.21	-2.65	0.48	-4.34	4.94	2.78	5.2	-0.45	3.97	-1.22	0.31
Pou5f1	Knockdown	1	7	-1.54	-0.37	2.81	0.78	4.9	-1.39	0.94	-1.82	-3.5	2.09	2.37	0.98	-0.12	-0.63	0.11	-0.18	1.29	0.84	0.89	-0.13	3.2	1.28	2.27	0.99	1.74	0.35	0.22
Sox2	Knockdown	1	7	-0.46	-1.55	-0.35	0.88	6.04	-2.93	-0.8	-2.41	-2.53	-0.72	-0.4	1.3	0.74	-1.29	-1.54	-0.51	1.31	-1.99	-0.09	0	3.3	2.46	5.16	2.31	1.48	0.1	0.53
Nanog	Knockdown	1	7	-2.83	-2.95	-1.5	1.33	7.15	-3.95	-0.5	-5.65	-4.29	-0.35	1.46	-0.95	-2.41	-2.42	-1.52	-2.06	-0.19	0.29	-3.91	-1.7	3.93	1.74	4.61	2.89	2.76	-1.46	-1.35

Supplementary Table S4. Target genes regulated by transcription factors

Target genes regulated by transcription factors (TFs) were identified from TF binding sites and gene expression change after TF manipulation.

Statistical criterion: EPFP < 0.30

Transcription factor	Manipulation	Up/down regulation	N genes	Gene list
Pou5f1	Induction	1	134	Dlx5, Slc9a2, Tbx15, Il10, Lypd1, Cxcl12, Irf2, Tcfap2d, Dlx6os2, Kctd16, 5033426E14Rik, Dync1i1, Ptprt, Prox1, Gpr120, Tbx18, Grik4, Slc17a6, Hivep2, Hlf, E130006D01Rik, Gria3, Fstl1, Ttc12, 2310010M24Rik, Nudt7, Zfp608, Il20ra, Nsg2, Dydc2, Ephb1, Six3, Spon1, Ndufa4l2, Msx1, Sema6a, Rfx4, Slc35d3, Dll4, Tnfrsf13c, Nr2f1, Zfp677, Runx1t1, D1Ert471e, Zic1, Rerg, Lypd6, Id1, Sall2, Nxp1, Id2, Mex3b, Phactr3, Sp8, Lhx1, Tmem54, Dlx2, Hhip1, Foxd1, Erv3, Prom1, Grip1, Cdx4, Baal, Meis2, Nos1ap, Setd7, Efcab1, Arhgef3, Smarca2, Ascl2, Id3, Insm1, Nt5e, Fgl2, Vax2, Arl4c, Arpp21, Rgma, Slc35f1, Fgf5, Psd3, Trio, Bst2, Dnmt3a, Wnt3, Reln, Atxn1, Depdc7, Galnt1, Hoxd1, Eph1, Tmc7, Otx1, Lhx2, Atoh1, 5430440P10Rik, Meis1, Sfrs12, Csm2, Syt17, Id4, Figla, Zfhx3, Tcam1, Zfp3612, Pkia, Efnb2, Zbtb16, Mafb, Pcdh8, Jph2, Gng4, 5330430C04Rik, Fgd2, Lphn2, Ebf1, Cdkn1c, Sertad4, C130089K02Rik, Bcl11a, Tcfap2a, Atn1, Egr2, Lrrc8e, Fuca2, Dach1, Dnajb8, Popdc3, Duoxa1, Cxcl14, Irf6, Ovol2, Kcnp3,
Sox2	Induction	1	340	Wnt5a, Hoxa1, Gad1, Peg12, Hs3st3b1, Pcdh19, Flt1, Ptger2, Mycl1, Id4, Flvcr2, Kit, Adrb1, Plekhg1, Ppm1e, Lonrf1, Neurod1, Btln1, Npy, Frat1, Foxd4, Ccdc19, Nrp2, Cd2, Serinc5, St8sia1, Srgap3, En1, Rgma, A930009N24, Xpnpep2, Slc22a23, Sh2d4b, Slc6a3, Stac, Slc35f3, Rerg, Ly75, Cpv1, Cd109, Pga5, Sox21, Dner, Cdh3, Trim36, Rab30, Zbtb44, Nfe2l3, Limch1, Ebf2, Tcfap2a, Ccdc46, Nod2, Shroom3, Sfrp2, Irx2, St8sia6, Creb3l2, Ntrk2, Cd40, Sgce, Sp8, Glis3, Nt5e, Pcdh8, Hsd17b3, D430015B01Rik, Rasgrp1, D0H4S114, Scmh1, Frmd4b, Ppp1r16b, Mobp, Nefl, Ndr4, Jam3, Vim, Lycat, Ppap2b, Isl2, Mobkl2c, St6gal1, Fsd11, Saa3, Inhbc, 9030613N10Rik, Gna14, Map4k3, Rbp1, Cidea, Meis2, Spsb4, Tle1, Rax, Meis1, Il20ra, Lrig1, Fez1, Onecut1, Hspb8, Yes1, Mbp, Tmem51, Rragd, Tnfrsf18, Zswim6, She, Zbtb10, Ypel2, 1810011O10Rik, Rgnef, Klhl21, Pgm1, Rgs8, Galnt4, Sema6a, Mt2, Satb2, Synj2, Mfng, Mical2, Pnlp, Calm1, Sesn3, Vegfa, Ror1, Igf1r, Prss16, Accn1, Osbp11, Gprc5a, Ccdc39, Myo10, Cd24a, Ap3m2, Prox1, C1qtnf1, Fabp1, Man2a1, Elovl7, 4922501L14Rik, Il10rb, Tcfap2c, Onecut2, D4Bwg0951e, Dennd3, Aldh1a2, Cald1, Slc22a15, Phactr1, Alpk3, Tbx3, Aim1, Cdgap, Shb, Mli5, Aadat, Cyp1b1, Kank1, Muc13, Prtg, RP23-157O10.7, Adamtsl1, D1Ert471e, Parp14, Scn1a, Cxcl12, Tyw3, Foxd1, Gpx2, Marcks, Tcfap2d, Lats2, Ttc28, Lrrc8e, Msx2, Lmcd1, Casz1, Ptpzr1, Acot1, Slc35d3, Sccpdh, Slc25a4, Cachd1, Pde4dip, Stard13, Ttc30a1, Aff1, Fndc1, Gm266, Robo1, Tdh, Ddx58, Lhx5, Ugdh, Hivep3, Gm672, D330037F02Rik, Fgl2, Fndc3b, Tmem136, Zfp608, Vegfc, Jazf1, 1200015N20Rik, Trp63, Csnk2a2, Rgmb, Tgfa, Arntl, Nrarp, Akap11, Barhl2, Lima1, Letmd1, Pik3r1, Dact1, Ppef2, Khdrbs3, Fgfr1, Slc29a1, Rai14, Map3k8, Dbx2, Sall3, Nxp3, Igf2bp2, 4930432N10Rik, Car12, Frem2, Sipa111, Fbp1, Ky, Txlnb, Asns, Pde8b, Crtac1, Muc1, Cebp, Gnas, Wscd1, Anxa11, Rnf7, Pdzd7, Padi4, Fstl1, Mobkl2b, Frmd6, Lmo7, Lrrc15, Grid1, Pknx2, Gpc4, Ttc12, D8Ert482e, Prmt8, Klhl2, D930028F11Rik, Fgfr2, Nxn, Dgki, Lrrn2, Otx2os1, H2afy2, Nr6a1, 1700095B10Rik, Stxbp3a, Sox13, Phc2, Kifc3, Tmem22, Entpd1, Acpl2, Casq2, Jag1, Pla2g7, Tiam1, 4930563F08Rik, Rbl1, Nudt7, Eph4, 1500009L16Rik, Zfhx3, Dpys, Zc3hav1, Rcn1, Gm687, Heg1, 9330199F22Rik, Otx2, Zmynd10, Cuedc1, Emi1, Lrig3, Trib2, 1810049I09Rik, 3732407C23Rik, Insm1, Slc9a9, Tnfrsf19, Galnt9, Ephb1, Comm3, Nfib, Uhrf2, Grsf1, Nkx6-2, Lama1, Tbx4, Nsg2, Itga1, Prickle1, Dll1, Syde2, Atxn1, Lrrn1, Cldn5, Pftk1, Gm1683, Ildr1, Ebp4, 114b, 1500001A10Rik, Aldh1b1, 2410152P15Rik, Mt1, Trak1, Cnpy1, Rnd2, Mex3b, Dusp10, Podxl, EG666529, Nudt4, Khdrbs1, Zfp563, Gadd45a, Pgc, C230094A16Rik, Acvr1b, Fabp3,
Nanog	Induction	1	0	
Tcf3	Induction	1	48	Tinagl, Mdga1, Tmem22, 9030613N10Rik, Sox9, Fhl2, Gsn, Pmp22, Aldh1a3, Col13a1, Plxnd1, Gpr103, Pcdh7, Sorcs2, Pax3, Ets1, Chst1, Dkk1, Il10rb, 2210408F21Rik, Sez6, Kif26b, Crb2, Slc25a24, 4631426J05Rik, Crim1, Peg12, Heg1, Ppp1r3b, Pitx2, Zeb2, Col4a2, Afap111, Dlx2, Lrrc8e, Cbx4, Setd7, Elfn1, Itgb3, Id3, Stk32c, Gnas, Hoxa1, Mafb, Zmiz1, Unc5b, Tgfb3, Vim,

Klf4	Induction	1	394	Dkk1, Mal, Btn1, Wnt10b, 4931408C20Rik, Hoxc12, Pi16, Gpr83, Nppb, 4732465J04Rik, Flrt1, Npr3, Emp1, Cpm, Kcnc2, Wnt6, S100a14, Mdga1, Lgi3, Map3k6, Atp2a3, Dlx3, Cyp4f39, Lgr6, Gprc5a, Klf5, Zfp697, Caskin1, Eya2, Adm, Slc23a3, Slc29a3, Klf13, Hspa12a, 4922501K12Rik, Pcolce2, Comp, Atp2c2, Sfrp1, Cspg5, 8430427H17Rik, Frat1, Kcnab3, 4930523C07Rik, Nuak1, Slc32a1, Mgl1, Aqp3, Stmn3, Tead4, Dlgap3, Garnl4, Fgf3, Tmem16a, Scaras5, Islr2, Kiss1r, Nrnx2, Scn2b, Ednra, Epm2a, Gna15, Sphk1, Prrx2, Nova2, Nags, Thbd, Ptgs2, Plcd3, Adamts15, Flt1, Lhx5, Cmtm3, Pla2g4e, Rxra, Slc2a10, Ehdhc3, Adcy2, Sdc3, Tc11, Hs3st3a1, T, Dtd9, Ablim1, Spesp1, Runcdc3a, Camk2n1, Tppp3, Pou4f2, Rhbdl2, Adrb1, Bdkrb2, Flrt2, Hand1, Ahnak, Reep1, Fosl2, Kdelr3, Sorbs3, Prdm13, Pad12, Brunol5, Gsg1, Fmnl1, Mpped2, Dnahc8, Wnt10a, Cxcl14, Rhbq, Slc1a1, Tmem179, Hepacam, Sna1, Plxnd1, Gata2, Itgb3, Mall, Tbx3, 5033426E14Rik, Asgr2, Pyy, Tmem132e, Cxcr5, Vav1, Hoxc13, Slc4a11, Nbl1, Mmp14, Abcc3, BC004044, Pygl, Crim2, Dnahc2, Unc5a, Hrk, Stra8, Ngef, Cxcr7, Pde8a, Tram111, Ddit4l, Fyn, Pigz, Rasgrf2, Fzd10, Nt5e, Ptf, Slc16a9, Gadd45b, Lingo1, Fcgr3, Nod2, Fstl5, Kcnc4, Fxyd5, Ly6h, Acbd4, 9530059O14Rik, Cspg4, Centd2, Ntn4, Jakmp1, Chrng, Kcnk6, Arsb, Id1, Xkr7, D9Ert280e, Cdkn1a, Galnt2, Syt1, Capn2, Wnt2b, Slc36a4, Rnf19b, Kcnk3, Id2, Gsx2, Nr4a3, Bean, Rusc2, Spata2L, Ror2, Fgfr4, S100a6, Itga11, Nudt7, Ccdc113, Nov, Phlda2, Bmp7, Rtn4r, Dapk2, Nfic, Lrrm3, Hck, Lrrfip1, Hic1, Armc2, Exoc3l2, Aqp5, Mapt, Muc13, Foxl2, Flnb, Gm1964, Adora1, Man1c1, Paqr9, Anxa2, Acpp, Tinagl, Myl7, Camk2a, Htra1, Gpihbp1, Nr5a2, Shox2, Slc6a7, Osm, Sfxn3, A830073O21Rik, Isl2, Tmem198, Pqlc1, Cdc42ep2, Arhgef19, Wnt7b, Crtac1, Ndrgr1, Pik3c2b, Plekhg3, Tcfcp2l1, Zbtb10, Klrg2, Grid2ip, Bai1, Casc1, Rps6ka4, Myo1b, Mtap6, Zfp503, Grrp1, Aldh3a1, Tas1r2, Ripk3, Igsf21, Slc7a1, Pdgfa, Dcll1, Bmp4, St8sia1, Tubb2a, Itga9, Adamts8, Lgals3, Ppargc1b, Rufy4, Vax2, Rcn1, Ahsg, Bmp8a, B2m, Crip1, Kcns3, Samd5, Ropn1, Ddn, Gtf2a1, Sned1, Thsd1, Abhd5, P4ha2, Phldb1, Chst8, Farp1, Efna3, Slc45a3, Crabbp1, Zfp217, Me1, Wnt11, P2ry2, Agpat9, Vstm2l, Ggt1, Etnk2, Gfra2, Atf3, Tubb3, Emi2, Ankrd26, Dnajb3, Ngfr, Gp5, Gsn, Plek2, Adssl1, Zfp536, Gas2l2, Prkcdp, Amigo2, Cbr4, Trim7, Tcfap2b, Rasl12, G530011O06Rik, Elovl3, Id3, Trim47, Il27ra, Sp6, Cdc2a, Map4k1, Mafb, Fbln2, Cpeb3, Hs3st3b1, Rtbdn, Sox17, Hand2, Phactr1, Fos, Tbx1, Ncam1, Dnahc17, Xaf1, Myl4, Slc16a5, Prael7, Strn, Tns1, Camk2d, 4931406H21Rik, Ucp1, Hsh2d, Hils1, Pip4k2a, Amigo1, Ccdc33, Spbs1, Dleu2, Adbl2, Cdrta, Krt19, Col5a1, Pnma2, Galnt7, Ppp1r9b, Krt18, Lmo7, Edg6, Cux2, Ninj2, Gas7, Sfn, Tspan1, Fabb6, Scd1, Hk1, Nfe2l3, Cd37, Plec1, Nr4a1, Ak3, 1810015C04Rik, Klf3, Atic, Vgll4, Insl3, Hrc, Stk22s1, Upk3b, Pmp22, Slco2a1, 5330426P16Rik, Ppapdc2, Mobkl2c, Grik4, Robo1, Cryz, Sostdc1, Tmem132d, Tgm2, Zdhhc22, Tdpoz3, Ablim2, Krt6a, Niban, Pdgfrl, Fndc3b, Cpeb2, Hes1, Rev3l,
Tcfcp2l1	Induction	1	54	Smarcd3, Plscr4, Nkx6-3, Gpr20, Dock10, Klhdc7a, Inhbb, Ppp1r3c, Ptges, Wscd2, Igsf21, Ffar2, Tmem117, Spns3, Cplx3, Rnf144b, Fgg, Hspa1a, Pib5pa, Adipoq, Kcnk4, Rapgef3, Cpt1a, Zdhhc14, Chrna4, Mras, Slc6a1, Hebp1, Ica11, Fmn1, Dkk1l, Slc7a8, Pdzrn4, Pde8a, Slc15a1, Crtac1, Hs3st6, Prmt8, Osgin1, Hap1, Rasd1, Ly75, Myom2, Slc30a10, Slit2, Tbx3, Slc6a3, Elovl7, Stambp1, Wnt3a, Mst1r, Ly6k, Kctd19, Gprc5a,
Cdx2	Induction	1	400	Pla2g7, Aqp9, Tmprss2, Trpm6, Gsx2, Sh2d4a, Pla2g12b, Itga11, Dct, Hoxa9, Popdc3, Csta, Dsc2, Smpd3a, Sox6, Nedd9, Taar2, Rassf4, Slc9a2, Hoxb8, Hoxa7, Prdm6, Atnx1, Bves, Abca4, Niban, Greb1, Mgat4c, Slc18a2, Slc25a21, Hoxc6, Tmtc2, Rgs8, Ntng1, Adh1, 9930021J17Rik, Papss2, Bhlhb5, Elf5, Vav3, Edn1, Nav3, Ptpb, Msx1, Hoxc9, Igf2, Prom1, Pkp1, Foxf2, Btn1a1, Cmtm8, Ppp1r3b, Maf, Esrg, Zbtb44, Insl6, Esx1, Trpc3, Igf2as, Il10rb, Plid1, Tpbq, Pmp22, Khlh29, Gucy1a3, C1ql3, Slc28a3, A830039N20Rik, Psd3, Pou4f3, Speg, Rnf103, 1200009O22Rik, Kcna6, Gata6, Hipk2, Prkccq, Camkk2, Sgpp2, Sgce, Slc22a23, Foxb2, Asgr1, Mpmn, 4930511J11Rik, Tph2, Aph1c, Atp8a1, Vegfa, Flt1, Smad6, Cib2, Chst2, Anxa3, Erg, Cd59a, Rgma, Sgpp1, Guca2a, Sccpdh, Ednra, Jak1, Pdzrn3, B3gat2, Zfp641, Hspb8, Cartpt, D430019H16Rik, Scaras3, Dusp14, Oas1f, Foxq1, Ankrd44, Akap6, Fbxo32, Iqch, Hoxd4, Arhgap18, Cux2, Hmx3, Hip1, Znrf4, Nt5dc3, Agbl2, Ankrd57, Pax3, Zbtb10, Dnahc17, Asxl3, Hoxb7, Camk2d, Bmp2, 5430433G21Rik, Odz3, Cobll1, Slc15a2, Isl2, Pdpn, Dhrs3, Eya2, Dscam, Hhip, Esr1, Gpr120, Cbln2, Wipf1, Galnt14, Sobp, A730045E13Rik, Myh10, D630004K10Rik, Siah2, Dock8, Peg10, P4ha3, Clie6, Cald1, Cda, St8sia6, Slc22a15, Bmper, Dmrt3, Astn1, Bean, Tes, Nr2e3, Calm1, Hoxc8, E130319B15Rik, Snph, Kank1, Dpysl2, Glt28d2, Pcp4, St3gal1, 4930563F08Rik, Oxct1, Pde4dip, Bhmt, Pkd12, Atoh1, Speer4d, Cebpa, Mnx1, 1110006G14Rik, Gng12, Tph1, Cmpk2, Crtc3, Vax1, Cacna2d2, Abca5, Gpr177, Gcgr, Oat, Zdhhc2, Dleu2, Fosl2, Rnf24, H19, Cxcl14, Rdh10, Wnt7b, Prickle1, Thbs4, Errf1, Gulp1, Adcy5, Hoxa3, Ptpm, Rin2, Zfp385b, Large, Hoxc4, Fndc3b, Gnao1, Id2, Nos1, Efcab5, Zfp503, Eif4e3, Mpped2, Wnt5b, Shroom3, Igf1, Arhgap25, Thrb, Nin, Arsb, Ppp2r2b, Cap1, Ptf1a, Tmem117, Zfp324, Mmd, Olfm1, Mllt3, 5730507A09Rik, Ifngr2, Sctr, BC037703, Al427515, Ptpla, Zadh2, Itgb3, Ifnar2, Cbln4, D430041D05Rik, Scml4, Ttc28, Dapk2, Tnfnsf11a, Pde9a, Bcl6, Slc16a7, Psap, Selenbp2, Gal, Tnnt3, Aim1, Pam, Dmrt2, Mylip, Pan3, Smarca2, Efnb1, Tspan18, Pip4k2a, Cbara1, Plagl1, Maff, Myrip, Cdh2, Slc22a21, Cd47, Prei4, Wnt16, Vcl, Ociad2, Kbtbd5, Lypd6, Stab2, Cpv1, B930049P21Rik, Peli1, Scn5a, Ptpn20, Irs1, Pak7, Hsf5, Fgf2, Accn1, Npy, Scrn1, Fos, App, 9030425E11Rik, Dennd1a, Rtn1, Gem, Th, Micalcl, Trio, Ugpp2, Cebpbb, 4930458A03Rik, Gliplr2, 4732465J04Rik, Tmeff2, Wnt5a, Cfc1, Calu, Elnf1, Fabb5, Acbsg1, Aldh1a3, Sgcb, Etv2, Fhdc1, 1500015O10Rik, C130089K02Rik, B4galnt2, Heatr6, AW049604, Adamts3, 4933416C03Rik, Lrrc4b, C030014K22Rik, Kcnd2, Tmem30b, Nr2f2, Tmem20, Jak2, Msx2, Fgfbb3, Cacna1h, Slc30a4, Bmp6, Akt1, Hs3st3b1, Lmx1b, Pbx3, Jph2, Pax9, Lmo4, Elovl4, Rnf7, Phldb3, Irs2, Rnf43, E2f6, Rhov, Aqp3, Foxo1, Tmtc4, Sfi1, Tbc1d1, Dnajb3, Gse1, Nr2f1, Tiam2, Nr6a1, Lrp2, Fgfr1, Slc26a4, Grik3, Speer8-psi1, Hoxb4, Blnk, Sparcl1, Atg16l2, 2810022L02Rik, Hpgd, Prtg, Zfp251, Slc8a1, Adra2a, Kcnc4, Gpr6, Zfand3, Bace2, Grk4, Ypel5, Nrp1, Kctd15, Arhgap21, Tcfef, Rxra, Gch1, Zswim6, Glt8d3, Tex18, Ggta1, Plekhg3, Hspa1b, Gpr116, Cap2, Cdkn2c, Pdia5, Itsn2,

Myod1	Induction	1	402	Arid5a, Smarcd3, Id4, Rgs8, Sync, Prox1, Igfbp5, Chrb1, 2610035D17Rik, Rassf4, Slc44a3, Chrnl2, Cdh15, Rgs16, Lingo4, Syt13, Atp2a1, Zbp1, Nol3, Id3, Hrc, Cldn5, Cxcr4, Lfng, Tbx18, Hes6, Gpr142, Myh7, Cd97, Acta1, Des, Gata2, Chr2, Nptx1, Cugbp2, Elfn1, Wnt7b, Lgr5, Id2, Hhat, AK220484, Fgf5, Arsj, Speg, Pknox2, Dmrt3, Pcdh21, Vgll2, Gpr20, Dusp13, C530008M07Rik, Myom2, Kcnb1, Sytl3, Snai2, Vwa1, Pla2r1, Mobp, Dennd3, Chrng, Parp12, Tppp3, Man2a1, 1810011O10Rik, Reep1, Trim72, Kcnk12, Lmcd1, Myocd, Cdc42ep3, Plb1, Pd e4dip, Prdm8, Tubb3, Obsl1, Baiap2l1, Grin1, Fhdc1, Asb10, Rhcg, Kcnj12, Tmem198, Clic5, Ifr2, Pax3, Snai1, Tnnc2, 1700094C09Rik, Abca4, Nol4, Ankr44, Pdlim4, Bik, Mbp, Hspa12 a, Nexn, Ramp2, Zbtb10, Nuak1, Pnmal2, Cstad, Pde2a, Mlph, Gadd45b, Lrrk2, Eya4, Gp9, Lzts1, Cygb, Tap2, Tll7, Plekhh3, 4933400N17Rik, Pla2g4e, Dok7, Mical2, Tbx3, Msx2, Pdzr n3, Slc6a7, Rgs2, Cux2, Eya2, 4931406H21Rik, Tph2, Mybph, Rgs11, Foxf2, Gm1337, Pde8a, Slc25a24, Dbndd1, Gal, Sfxn5, Pmp22, Rai1, Notum, Tigd3, Ninj1, Cdkn1a, Mgat5b, Hs3st 3b1, Arhgap28, Bdkrb2, Smad3, BC037703, Ttc28, Ppp2r2b, Myod1, Gatm, Atnx1, Sema3c, Zfpm1, Rab6b, Gpr126, Barx1, Sobp, Ckb, Socs1, Thsd7a, Gprc5b, 1110002O04Rik, Fbxo3 2, Anxa4, Mro, Ephb1, AW549542, Irx3, EG434197, Frmpd1, Ptges, Acaa2, Cryab, Irf1, Lats2, Cebpa, Ttyh2, Chst11, Arhgdig, Dtx4, Sico2b1, Mypn, Megf10, Tob1, 4931408C20Rik, Cue dc1, Sh3glb1, Samd4, H2- T10, Hnf4a, Hspa4l, Grap, Id1, Flnc, Plekhg3, Cmpk2, Nfkb1a, Itgb3, Smad6, Crabp2, 2310010M24Rik, Acot12, Morn1, Comp, Tgfb1i1, Cdc42ep1, Adssl1, Ihh, Ablim1, Gata4, 2310008N 11Rik, Tiam2, Krt8, Ankrd1, Isl1, Angpt1, Ppp1r3b, Cd300e, Dbn1, Mdfic, Plekhg2, Aldh1a3, Thbs1, AB041803, Optn, Ng23, Acta2, Mdga1, Unc5b, Rbm24, Rhobtb2, Ngr, Itga3, Msx1, Zf p516, Lsp1, Csrp1, Fzd1, Slc37a2, 4933427D06Rik, Pycr1, Moscc2, Adamts8, Cbfa2t3, Foxn4, Tle3, Scrn1, Tdrd7, Olfml2b, Spsb1, Ypel5, Gstm5, Nbl1, Kcnf1, Hdac5, Mc1r, Dhrr3, Bcl6, Lama2, Hs6st1, Mrgpre, Nfam1, Gm672, Pitx3, Myom3, Lhfp, Wnt3a, Man1c1, Mcam, Fyn, Tmem119, Micalcl, Tmcc2, Kif1a, Ubash3b, Ap3m2, Hrh3, Coro2b, 5730557B15Rik, Hoxc4, R in3, Hhipl1, Hoxa1, Lrig1, Ltb, Vash1, Hgd, Cbr3, Btrc, Tgfbr2, Mamdc2, Tbx4, Nes, Pthr1, Dmrt2, 2610301F02Rik, Lrrc20, Tpm2, Fes, Arhgap24, C130089K02Rik, Col16a1, Cldn23, Ga dd45g, Agrn, Lmx1b, Kbtbd11, Rhbq, Trio, Gpc1, Cntln, Leprel1, B930049P21Rik, 2900057B20Rik, Psap, Col4a1, Cyp26c1, Maf, Anks6, Serinc2, Plxna2, Pde5a, Trim7, Mt4, Vgll3, Gprc 5a, Nsg2, Atp1a2, Acpp, Ccond3, 4921511C10Rik, Bace2, Plekha2, Ptpn13, Gata6, G0s2, Sfi1, Iqck, Rel, Hes1, Amotl1, Serpinh1, Ak1, Galns, Mex3b, Pgm5, Btbd11, Gsst3, Bahd1, Slc22 a23, Lrrfp1, Ddr1, Card10, Htra4, Ptpn21, Wipf1, Ifne1, Zdhhc2, Cacna1s, D8Ert82e, Atp2b4, Apobec2, D4Bwg0951e, Ablim2, Hpgd, Rbm20, Pdlim3, Gprc5c, Pink1, Trib1, Spp1, Rbm 47, Pfk, 1810015C04Rik, Cd83, Cdx2, Hdac11, Proc, Atp2c2, Nupr1, Tbc1d8, Shb, A4galt, Rapgef2, Tmem16f, Map3k6, Prdm1, Lrrc27, Tmem154, Krt9, Saa2, Phf19, Ryr1, Ccr7, Tspa n32, Lix1, Nedd9, Cd9, Ttc7, Gngt2, Dusp10, Tuba3a,
Sfpi1	Induction	1	259	Nod2, Mmp9, Sfpi1, Gbp6, Il20ra, Coro1a, Gbp3, Irf5, Clec4a1, Slc9a9, Trim30, Slc9a7, Hoxb13, Lyn, Ptpn18, Gcm1, Prr15, Dyrk4, Cbfa2t3, Irf2, Cd52, Extl1, Heg1, Arhgap9, Plac8, Oasl2 , Scn2b, Rassf5, Tnfrsf13b, Apbb1ip, Gbp5, Cebpd, Mesdc1, Erg, Lonrf1, Ncf2, Sync, Gbp1, Igfbp4, Itsn1, Lmo2, Unc93b1, Rbm47, Psm8, Lyl1, Thbd, Mylc2pl, Gbp2, Gch1, St8sia1, Agp at9, Tapbp, Arpc1b, Myo18a, Nfam1, Ubash3b, Fbp1, Fgr, Mgat4b, Cd82, Ak3l1, Mapkapk2, Gsg1, Psm8b, N4bp2l1, Clec12a, Acpp, Ckb, Gfi1b, Rin3, Hmx2, A930008G19Rik, Tap2, Ra sl10a, Stambpl1, Rgag4, Gas7, Meis1, Ube1l, Ccbl2, Ptpn13, Phlda1, Sip1, Rbm43, Ctsc, Vim, Sash3, Dock2, Pde2a, Lrmp, Lst1, Thsd1, Lycat, Tlr4, Sh2b3, Mrv1, Hlx, Lats2, Rnf7, Bin2, Irgm, Abi3, Irf1, Ptgs1, Capg, Sepp1, Mmd, Cmtm7, Trim16, Tmem181, Gng12, Rel, Gpr114, B930018H19, Nfkbie, Sifn2, Cd274, Alox15, Slamf9, Tgfbi, Il21r, Rac2, Hdc, Pik3r5, Abcg1, N coa3, Itgax, Prdx6, Pdlim2, Spata6, Bcl6, Dll4, Ampd3, H2- T10, Aldh1a2, Il7, Creg2, Tnfsf9, Cst7, Rap1a, Mppe1, Sifn9, Map3k8, Pik3cd, Rnpep, Alox5ap, Rgs14, D730003K21Rik, Pqlc1, Ptgir, Gnai2, Vav1, Rassf3, Mkl1, Aff1, Tmem86a, Lipe, Il6 ra, Tg, Picalm, Gm347, Chst1, Ptpn7, Adora2a, Msrb3, Tph2, Nkain3, Cmtm3, Tgfbr1, Elk3, Rnasel, Rhoq, Igtp, Tnfai8l2, Tnni2, Angpt1, Osbpl3, Dusp4, Hspb7, Chr4, Smarca2, Hspa1 a, Entpd1, Ndr1, Fcgr2b, Id3, Ifne1, Bcl2l11, Ptpre, Ly6e, Pik3r1, Limd2, Steap3, Arhgap27, Add3, D330017J20Rik, Plcg2, Cd79b, Eif2c4, Inpp1, Tm6sf1, Rassf2, Zfp36l2, Rhpn2, Spsb4 , Eif4, A530032D15Rik, Rhobtb2, Fes, Gramd3, Itgb2, Cd97, 4631426J05Rik, Slamf6, Pkn1, H2afy, Pdck1ip1, Fli1, Bst2, Padi2, Itpkb, Fyn, Sp110, Tnfrsf26, Rnf19b, Socs3, Csk, Cpeb2, Kcne3, Fkbp1b, Klf13, Alpk1, Casp8, Fut4, Fgd2, Ikbke, Hrb1, P2rx7, Pon2, Ciita, Acadl, Echdc3, Xist, Rps6ka4, Traf5, Foxd2, Foxr1, Dtx3l, Atp1b3, Ppp1r9b, Trim25, Cotl1, Ptk2b, Tbc1d1 4, Vps18, Car7, Acot2, Fgfr4, Pik3ap1,
Pou5f1	Knockdown	1	76	Tbx15, Dpf3, Hs3st3b1, Bcor, Wnt7b, Foxa2, Sypl2, Itga1, Col25a1, Cdx2, Msx2, Ptch1, Fgfr2, Fuca2, Rragd, Cxcl14, Scnn1a, Kctd15, Sez6, Irf6, C130089K02Rik, Id2, Cbx8, Rgma, Prox 1, Cdkn1c, Gsx2, Cd24a, Gadd45g, Pde8a, Hhipl1, Tgfbr3, Lipg, Zmiz1, Prickle1, Grina, Gchfr, 2210408F21Rik, Setd7, Tcfap2b, Tnfrsf1a, Zbtb16, AW548124, Eomes, Rtn4r1, Ascl2, H oxb13, Akt3, Rhpn2, Cbx4, Lrp2, Ccdc33, Id3, Npas4, Hsd11b2, Gipc2, Lrrc8e, Zfp503, Tmem22, Arl4c, Cuedc1, Hhip, Efnb2, Gsc, Hoxa1, Fos, Lyn, Maf, Amfr, Hoxb4, T rio, Nefl, Sfi1, Sem a6a, Sox9, Espn,
Sox2	Knockdown	1	93	Casc1, Hspa12a, Id3, T, Cdkn1c, Wnt3, Krt7, Pitx2, Plekha2, Foxa2, Ephb1, Msx1, Scnn1a, Tmem22, Gpr103, Dkk1, Sgce, D430015B01Rik, Cdx1, Kif21a, Clic5, Wnt8a, Ier5, Rgma, Pm p22, Xpnp2p2, Hs6st2, Frmpd1, Prtg, Cda, Chst1, Arl4c, Zfp503, Slc6a7, Abhd9, Nkx2- 2, Sfmbt2, Sertad4, Galr2, Plcl2, Itga1, Sez6, Setd7, Jun, Slc9a2, Itgb8, Heg1, Lefty1, Eif4e3, Grip1, Zfp608, Rhou, Hhipl1, Lrrc8e, Sdc3, Tmc7, Tec, Id1, Dok5, C130089K02Rik, Prickle1, Fgfr2, Msx2, Acox2, Mafb, Ccdc33, Amfr, Tnfrsf1a, Nt5e, Hgsnat, Hesx1, Mex3b, Serpinh1, Irx3, Slc7a8, A630091E08Rik, Tnfrsf14, Flt1, Speg, Ctdspl, Rbm20, 4631426J05Rik, Lmod3, Krt8, Lpp, Unc5b, Epp4. 1l1, Atnx1, Hip1, Slco2a1, Gpsm1, Dlx6os2, Hoxa1,

Nanog	Knockdown	1	233	Wt1, Ephb1, Coch, Il20ra, Msx1, Pcdh8, Gata6, Fgf5, Akr1c14, Sez6, Irx5, Pdgfra, Pou3f3, 5033426E14Rik, En1, Zfp608, Spon1, Dkk1, Sema6a, Ifit1, 9030613N10Rik, Grhl2, Efnb2, Dup4, Slc35d3, Mab211l, Cachd1, Dlx2, Nkx2-2, Irx3, Foxd4, Bcl11a, Klf21a, Ptptr, Ccno, Rxrg, Foxa2, Cxcl12, Sync, Lrp2, Ror1, Gadd45g, Tbx18, Lef1, Slc9a2, Crisp1d1, Sox7, Id1, Arpp21, Cdh2, Tcerg11, LOC227885, Itgb8, Sp8, Wnt3, Id3, Hs6st2, Dpyd, Trim36, Fbp1, Robo3, E530001K10Rik, B930011P16Rik, Fgf15, Scel, Fgfr2, Arg2, Tgfb2, Otx2, Id2, Ier5, Dnmt3b, Trib2, Nkx2-9, Ebf2, Maf, D030018L15Rik, 2310010M24Rik, Gata3, Krt8, Itga1, Ptpn14, Hnt, Wnt8a, Chst1, Epha1, Gdf6, Zic2, Tmcc3, Podxl, Tmem22, Stard13, Kcnj9, Tmem90a, Serinc5, Asb4, Prss23, Meis1, Mafb, Inadl, Tnfrsf19, Atf3, Flt1, Hoxa1, Pax3, Pmp22, Snai1, Gja1, Ptpz1, Lats2, Npal2, Hoxb1, Pmaip1, Ovol1, Kctd16, Cdx2, Cyp24a1, Crb2, Mmp25, Ddit4l, Pik3r1, Fras1, Gpr177, Msx2, Pou4f3, Creb5, Ptprb, Gsx1, Atxn1, Wnt16, Otop1, Phactr1, Igsf11, Crlf1, Six3, Cacna2d1, Elnf1, Avpr1a, Clic5, Zfp503, Kl, Syt17, Mycn, Prom1, Tbx4, Ddit4, Hmga2, Trio, Ets1, A930009N24, Phlda3, Meis2, Klf6, Ercc4, Igf2, Dll4, Slc25a24, Dcc, Pitx2, Zswim6, Prickle1, Tas1r2, Lonrf1, Sgce, Plcg2, Bmi1, D330037F02Rik, Ptpns, Gnas, Has1, Jun, Tnfrsf10, Ovol2, Trib1, Eya2, Rb1, Palld, Fezf1, Kcng3, Lmo4, Pcdh7, Nes, Rarres1, Bcor, Kitl, Hoxd13, Asb13, Atoh1, Popdc3, 3110007F17Rik, Lphn2, Nt5e, Dlx6os2, Sv2c, Commd3, Ccnd2, Eml1, Lhx2, P4ha2, Emx2, Rbm20, Sertad4, Jph2, Cd24a, Pkia, Pcdh19, Rapgef1, Pdlim3, Ptgs2, Pdzm4, Thbs4, Cald1, 4631426J05Rik, Dsp, Zbp1, Cyr61, Glis3, Ankrd6, Dst, Egr2, Sox13, Gm98, Cttdspl, Alox5, Nostrin, Isl2, Lix1, P2ry5, Casq2, St8sia3, Irs2, Slc22a23, Myc,
Pou5f1	Induction	-1	0	
Sox2	Induction	-1	0	
Nanog	Induction	-1	0	
Tcf3	Induction	-1	399	Nr5a2, Slc28a1, Gsta3, Mcf2, Spic, Glod5, Zfp371, Ooep, Ntn1, Gm1967, Mup4, Notum, LOC436089, Ttn, Trh, Btla, Morc1, Ttpa, Gm525, Mup5, Tdh, Abcb5, Eras, Rshl3, Cyp4f14, Foxd3, Apod, Ccno, Rxrg, Akr1c18, Zic3, Kis2, Ptger2, Jam2, Slc5a11, Enox1, Gjb1, Osm, Ephx2, Zfp819, Igkv4-90, Tdrd12, Fzd10, Slc15a1, Slc13a4, Spats1, Gli2, Wnt8a, Klf2, Zmat4, 4930434E21Rik, 2010204N08Rik, Capsl, EG328314, Tcea3, Sp5, 2410088K16Rik, Hoxb1, Manba, Blnk, Slc7a3, Ddx58, Scgb3a1, Cnpy1, Lrrc34, Gm1631, Fbxo15, Sh2d1a, Nt5e, EG434197, Pim2, Pla1a, Slc6a15, Pdcl2, Zyg11a, Col14a1, Trim2, Cobl, Dppa5a, Dppa3, Grhl2, 1810054D07Rik, Epb4.9, Coch, A830018L16Rik, Gabra1, Gm1679, Sall3, Jmjd2c, 1700121N20Rik, Gpr160, Lef1, Nanos3, Ubxd4, Sncg, Dusp27, Frmd4a, Triml2, Fut9, Casq2, Cysl1r1, Fzd5, Cyp4f15, 1700019D03Rik, Prdm14, Lgals12, Rasgrp1, Nanog, 9330199F22Rik, Rif1, Ddc, Mf2, Mkrr1, Glt1d1, 4932412D23Rik, Myb, Tm7sf4, Mycn, Ebf1, Fgf4, Sash1, Ccrl1, Ifitm1, Dnmt3b, Kcnk5, Cyp2j13, Sh3gl2, Slc1a3, Zfp72, Pdggc, Tubb2b, Cpsf4l, Crisp1d1, Bnc2, 2410152P15Rik, Dmrt1, Atp10a, Dapp1, Ncl, Klf4, Cpne5, Ccdc138, Ppp1r9a, Rpp40, Rragd, Elmo1, Pdk1, Pcaf, Rage, Ckap4, Hist1h4d, Lix1, Elavl2, Tnfrsf19, D12Ert553e, Dcbl1, Prdm1, Gbx2, Prlr, C78283, Papalb, Zfp273, Tns3, Serbp1, Tdggf1, Zic5, Gm428, Zfp532, Pitpnc1, A1427809, Enpp3, Otx2, Zbtb2, Gja1, Tmem8, Kctd16, D14Abb1e, Prdm5, Epha1, Eed, Hmgb2l1, Sox13, Pax6, A930001A20Rik, 4833422M21Rik, BC053440, Tcfcp2l1, Prr6, Yipf7, Anp32a, Slc7a7, L1td1, Ppp2r5c, EG244495, Sycp1-1, Cacybp, Sap30, Pipox, Dapl1, B4galt6, Trim24, Zfp677, Etv5, Arl4a, F2r1l, Mnd1, Cep55, Arhgef3, Lifr, Gdf3, Smarcd1, Tbc1d9, Qser1, Mllt6, Irak3, Spp1, Dppa2, Zfp57, Gtlf3a, Fgr, Acs15, Alg13, Alpl, Syt3, Jarid2, 3732407C23Rik, Xrn2, Gna14, Pfdn1, A230083H22Rik, Dnajc19, Sulf1, Terf1, Fbxo22, Klf9, Rfx2, Gfpt2, B3gnt7, Pvt1, Sox2, Rmnd5b, Enah, Foxn2, Fbxo36, Ina, Rpl22l1, Elavl4, Phc1, Tera, Cdc37l1, Snapc3, Tgif1, Mbip, Nufip2, Vcan, 9130209A04Rik, Usp7, Frem2, Has2, Dennd2c, Nsd1, Tmf1, Hsd17b14, Gpa33, Mobp, Acsbg2, Vegfc, Rarres1, En1, Myh13, Yes1, Cml4, Plcx1d1, Pcsk6, Tnfrsf11, Ildr1, Lrrn2, Il17b, Ifitm7, Tfdp2, Acp6, Sept1, Ndg2, A830025M08, Mapt, 9430078K24Rik, Psat1, Il7, Cdca7, 2810021B07Rik, Myst4, Sntb2, Pabpc3, C230088H06Rik, Ccnc, Socs2, A230028O05Rik, 4930444G20Rik, Dock2, Ppp2r2d, Cachd1, Mitf, Enoph1, Odz4, Ms4a10, Arpp21, Casc4, Rcor2, Fgf1, Gtf3c3, Msh6, Ttc25, Cyp7b1, Gramd1b, Runx1t1, Dhrs7, Prrg4, Ankrd35, Znf2, Ccdc3, Slc25a40, Rab11fip4, Adam23, Nup205, Esrrb, Zbtb45, Mybl2, Mreg, Rit2, Utrn, Cdk4, Nmnat2, Morc3, Tle4, C230037E05Rik, H2afz, Dido1, Rpl7l1, Rerg, Ctbp2, Nlrc4, Nr0b1, Slc5a1, Akr1b8, Apln, Acss1, 1700049E22Rik, Tmhs, Gfod1, Armcx1, Kif18a, C330048F19, Mrps31, Slc37a1, Itpk1, Patz1, Gjc1, Cd2, Twf2, Spry4, Nodal, Cbfa2t2, Shf, 2410004N09Rik, Upp1, Rfc5, Mog, Tbc1d15, Slc35f2, Twistnb, Bst2, Mtss1, Snrpn, Zcchc10, St8sia1, Atic, Lamc1, Pecam1, 0610039H22Rik, B430203I24Rik, Oc90, Tmem29, 1700071K01Rik, Hps3, Upk1a, Acot1, Vwf, Ceacam19, Naprt1, I0C0044D17Rik, Ralgps2, Cenpm, Rhcg, Tmem17, Bard1, Arl4d, Atf7ip, Rarg, Rps8,
Klf4	Induction	-1	128	Lbxcor1, Dll1, Grm6, Lef1, Ccno, Trim36, Pax6, Zic5, Zic2, Car4, Tdrd5, Myb, Sema6a, Otx2, Upp1, Grhl2, Tmem54, Meg3, Tbc1d9, Dnmt3a, Jph1, Atp10a, Kctd19, Camkv, Slc39a8, Jph4, Gstt2, Tmem74, Wdr86, Meis2, Ahrr, Dll4, Artt, Ifngr2, Otop1, Atp12a, Chrna5, Efcab4a, Pou3f1, Myo10, Dtx4, Sp5, Cdh3, Bcl11a, Zhx1, Mpp3, Icosl, 2310045A20Rik, Rgs16, 2310026E23Rik, Dmrt1, Meig1, Msx1, Cdk11, Knndc1, Slc5a5, Dleu7, Ankrd6, Tppp, Hoxb13, Psd3, Lrrn1, Cdh2, Prr15, Spock2, Nrcam, Nope, Fgf15, Usp44, Gnb4, Pm20d2, Nav2, Cldn1, Slc43a1, Wnt8a, Hdac11, Cgnl1, Snai3, Colec12, Klc3, Clgn, Per2, Mcoln3, Gbx2, Efnb2, Rbm35a, Slc22a23, Il7, Dusp10, Dab1, Mfap3l, Cldn7, Plcg2, Sox4, Gnao1, Eif4e3, Rprm, Arl4c, Ddr1, Epha7, Met, Lypd6, Vwa2, Nes, Sox12, Paqr8, St6gal1, Klf2, Bst2, Ccdc85a, LOC436089, Sulf1, 9130401L11Rik, Mycn, Rab19, Gm525, Gdap11l, Xkr5, 4833422M21Rik, Etv6, Rab34, Cpn e9, Cdk6, Rev1, Lifr, Vwf, Pla2g10, Chd7,
Tcfcp211	Induction	-1	48	E330037M01Rik, Irx3, En1, Gabra1, Egr2, Zfp608, Fgf5, Gfra1, Msx1, Egr4, Hoxb4, Cds1, Isl2, Efnb2, Foxa1, Mfsd2, Id2, Adra2a, Msx2, Id3, Dusp26, Gata3, Cyp24a1, Atoh1, Pitx2, Efh1, Zic1, Galnt14, Pthr1, March1, Mafb, Pcdh8, Cdkn1c, Ap3b2, Agpat9, Bcl11a, Ank, Sertad4, Pde5a, Fgf15, Lad1, Sall3, Rtn4r1l, Dcl1, Sema4c, Tead3, Myb, Yaf2,
Cdx2	Induction	-1	0	
Myod1	Induction	-1	6	Sim2, Avpr1a, Nefm, Nt5e, Lef1, Nrp2,
Sfp1	Induction	-1	0	

Pou5f1	Knockdown	-1	674	Gm525,Gm1967,Mup4,Enox1,Neurod1,Inhbb,Mcf2,Lefty1,Slc28a1,Pdyn,LOC436089,Nr0b1,Gbx2,Dll1,Vegfc,Slc7a3,Zic3,Tnfsf11,Nkx6-3,Zmat4,Dusp27,Ripply1,Ccno,Dpp4,1700019D03Rik,C130034118Rik,Pdzd4,Odz4,Tcl1,Insm1,Ttpa,Cyp11a1,Sfrp4,Slc5a11,Adam23,Trh,Foxd3,Ooep,Camkv,Gm428,Fgf15,Enpp3,Scgb3a1,Ttn,Slc47a1,Jam2,Fut9,Lbxcor1,Apod,Cnpy1,Pou5f1,Gsta3,Dab1,Cobl,Trp73,Pax6,Pitpnc1,Sema5b,Rxrg,Epha2,Lrrn2,Cyp4f14,Sult6b1,Fbp1,Myb,Slc5a1,Socs2,Stat4,2410088K16Rik,2410152P15Rik,Zic5,9130401L11Rik,Nmnat2,Abcb5,Lefty2,Phc1,Zfp819,Myo1g,Hsd17b14,Tmprss11d,Manba,Pabpc3,Fzd5,Stmn2,C330004M20Rik,Spns3,Pla1a,Dpys,Gm1679,Ms4a10,Tdgif1,Slc7a7,Tcf15,L1td1,Trps1,Cyp3a13,Nodal,6332401O19Rik,Dppa5a,Prdm5,Fgf4,8430430B14Rik,Exoc3l,D730003K21Rik,Prmt8,Slc1a3,Gjb1,I17d,Foxp1,Upp1,Rnf125,Cdyl2,4932412D23Rik,Pdcl2,Mfng,Coch,C330048F19,Gm1631,Lef1,Ndufa4l2,Otx2,Igfbp1,Camk1d,Hpca,Trim2,T,Etv4,Gpa33,Liph,Gad1,D1pas1,Rarg,Nt5e,Xkr5,Pla2g4e,Gabra1,Aire,Zfp296,Ccdc113,Slc43a1,Trpm1,Parp14,Zfp371,Mcsm,Sfrp1,Sall3,Ddx58,Mtss1,Zbp1,Lrrc2,Gm867,Gpr1,Slc12a8,Gli2,Ptprj,Meox1,Cth,5033426E14Rik,Fhod3,Sept1,Eps8,Zfp42,Ntn1,Slco4a1,En2,Cbr3,Spats1,Usp28,Eli2,Wnt3a,Cd37,Iifitm3,Slc35f2,Adamts1,Cyp2b23,Tspan32,Slc6a15,Tm7sf4,4930432N10Rik,Pcaf,Tmc5,Klf5,D12Ertdd553e,Rex2,Tcea3,Fbxw10,Bst1,Ttyh1,Parp12,Dapp1,Wscd1,Ngfr,EG328314,A1427809,Kcnq2,Zfp532,Nostrin,Olig3,Klf2,9330199F22Rik,Hsd17b11,Atcay,Ltbp4,Sap30,Gfpt2,Zfp57,Otx2os1,Cnga3,Acsbg2,Gtlf3a,A430010J10Rik,Fblim1,D16Ertdd472e,1810054D07Rik,Cep55,Ctbp2,Gcm2,Sulf1,Hspb3,Ccdc3,Matn3,Camk2b,Scgb1c1,Dcbld1,Rragb,Crmp1,Timp4,Piwil4,Sox12,Elavl2,Elavl4,Camk2n1,Arc,Gm216,Nid2,Jag1,Lgr4,Arl4a,Pipox,Utf1,Hormad2,A230055J12Rik,EG620393,Vstm2l,Oit1,Chd9,Tex21,Art1,Slc39a14,Dclk2,Naprt1,Snta1,Lin28b,Tff3,Inpp5d,Lonrf2,Mreg,Slc25a36,Mkrm1,Fzd10,Gjc1,Rcor2,Irak3,Enah,Dlgap3,Etv1,Notch4,Pigl,Pecam1,Porcn,Rbpms2,Serpini1,Col13a1,Zfhx2,Mycn,Rest,Nptx2,Cpsf4l,Cdk6,2210417A02Rik,Kcnu1,Eed,Tmem179,A830025M08,Tmem145,Zscan10,Esrrb,Sntb2,Bai1,C78283,Centa1,4930449E01Rik,Speer7-ps1,Tsx,Wnt8a,Atf7ip,Grtp1,Polr3gl,Spred1,Zbtb2,Tera,Plekhhg1,Fgf10,Rbmxl2,Gm98,Cga,Acp6,Pde1b,Dock2,A730049H05Rik,Zap70,Sh2d4b,Igfsf21,Tmhs,0610039H22Rik,Capsl,Papalb,Sirt1,Etv5,Etaa1,Ncam1,Tdh,Pvt1,Lrrn3,Cryba1,Tbc1d21,Tnfrsf1b,Apoe,Setx,Esam1,Dennd2c,Gdf3,Atp1b2,Smtnl2,Ttc25,Slc7a9,Dnajc6,Nf2,Higd1b,Hap1,Plekhhm1,Akr1b8,Krt42,Trim36,Mypn,Car3,Phf15,Ankrd35,Hes6,Ilf7,Ephx2,Morc1,Jmjd2c,Mcl1,Fbxo15,Msln,Mgmt,Batf,Runx1t1,Nope,A530088H08Rik,Cacybp,RP23-149D11.5.9430078K24Rik,Dopey2,Mfap5,Arl4d,Sox1,Nufip2,Meg3,Ier2,Pdgc,Cplx1,Col14a1,2900041M22Rik,Ldlrad3,Zfp428,Tor3a,Gpd2,Igll1,Ubr5,Rif1,Slc15a1,Arl15,Anxa11,Tspan5,A230083H22Rik,Mfi2,Sod1,Rage,I17rd,Atp10a,Igf2bp2,Sox2,Sncg,Fgf5,Cbfa2t2,Mtf2,Slc38a2,Myh13,Terf1,Hunk,Cachd1,Spire2,Ina,Mobkl2c,Txnip,Zfp219,Armcx1,Fgf1,EG665897,Lrch4,4933403G14Rik,LOC380850,Ric8b,Ak1,Cnmm2,Prdm14,1700049E22Rik,Inoc1,Trp53,Tnfrsf17,Zfp518b,Adora2b,1200015N20Rik,Evc,Ssr2,C230037E05Rik,Asxl1,Hk2,Tmem2,Schip1,Zc3h12a,Sh2d1a,Tfdp2,Mitf,Stoml1,Xaf1,Twf2,Rsbn1,Ptprk,Irf1,Sco1,A830018L16Rik,Slc29a4,Morc3,Pdhhb,Ubx4d,Rpp25,Gpt2,Gpr133,Cldn5,Jarid1b,Lemd1,Scarb2,Pla2g10,Ptp4a3,Triml2,Kif5b,Rassf10,Plekhhg5,Prr6,Tnk2,Slc29a1,Mllt6,Gdap1l1,Tbc1d9,Phf21a,Adrb1,Cdc42ep3,Enc1,Rbpj,Elmo1,B3gnt2,Gpx7,Ilf7b,Cd38,Sacs,Msi2,Dfna5h,Pla2g2c,Arntl,Pdk1,Ccr1,Rpap1,Xrcc5,Psat1,Cggbp1,Ggnbp1,Cdc37l1,Dscaml1,Parp1,Nfat5,Snapp3,Glod5,Itpk1,Apol7a,Rmnd5b,Rfx2,Spry2,Cdc2l6,Spred2,Nolc1,Iifitm2,Twistnb,Rfc5,Cdca7,Ncor1,Frmd4b,Slc3a2,2410004N09Rik,Spp1,Spry4,Thrsp,Aqr,Syt9,Meis2,Mup5,Ryr3,Aass,Spna1,Robo4,Spink3,Nlrc4,Gngt2,Vsig2,Dok2,Grp,Pllp,4631416L12Rik,Frmd4a,Usp44,Bnc2,Bcl11a,Ebf1,Hfe2,Ccnd1,Tmem45b,Nrxn1,Egfl6,Oas2,Popdc3,Tmem40,Kng2,Rerg,D18Ertdd653e,Chd5,Slc9a2,AW125753,Gpr135,Tdrd12,Asb4,Hells,Pml,Mtus1,Cradd,Tmprss12,Cd300e,Dtna,Yipf7,Jmjd1a,Iifitm6,Gpr160,Mep1b,Qser1,Calca,Irx6,Arpp21,Pim2,Rapgef4,Helb,Spag6,Rasgrp1,Aard,Esco2,Myc,Ankrd10,Cysltr1,Pice1,Kis2,Reln,Hopx,Aldh2,Pias2,Irgm,D4Ewg0951e,Gprc5b,Plekhhb1,Dip2c,Tmprss5,Skil,Crispld1,Tshb,Zdbf2,BC053440,Tle4,Cyp2j13,Ilf3,Gbp2,Lmo2,Akr1c12,Lphn1,Xab1,A530058O07Rik,Tpd52l1,Ddc,Rrn3,Mterf,Hecw1,Tmem8,D330037F02Rik,Chek2,Vwa3a,Zfp184,Tff1,Rhbg,Ilf27ra,Bahcc1,Zcchc3,Cyb5r1,Gls,4921511C04Rik,Clnk,Slc27a2,Gaint9,C130092O11Rik,Trim52,4933408N05Rik,Olf1r147,Iifitm7,Tcp112,Zfp11,Tmem45a,Pcyl1b,Kcnh8,Prok2,Csn3,Morc2b,Dmc1,Tm7sf3,Cebpd,C230088H06Rik,Akap11,Plcb4,Tcfap4,Cml4,Grm6,Insc,4930434E21Rik,Pcdh8,Cpvl,Ngsg2,Pnpla3,Fstl5,Calb2,Hoxb1,Pcolce2,Rtkn,Lrrc34,Arhgap30,Fgl2,Sox7,Itag9,Ptprt,Hlf,Duoxa2,Tmem121,Astn1,Zfp536,Foxa1,Mesp1,Cryba2,Nkx2-2,Dgkg,
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Sox2	Knockdown	-1	509	<p>Inhbb,Gm1967,Nkx6-3,Slc7a3,Enox1,Scgb3a1,Tnfsf11,Pdyn,Cyp11a1,Dpp4,Tcl1,Ntn1,Vegfc,Ripply1,Manba,Pax6,Morc1,Trh,Dnajc6,Nr0b1,Spp1,Zmat4,Lrrc2,Pdcl2,Slc28a1,Ttpa,Gfod1,Krt42,1700019D03Rik,Gbx2,Notum,2410152P15Rik,Pdzd4,Edn2,Tmprss11d,Lrrc34,Spats1,Dpys,Jam2,Trim36,Neurod1,Tmprss5,Prmt8,Fut9,Slc6a15,C77370,Fgf15,Cyp3a13,EBf1,Mcf2,Cnpy1,Sult6b1,Myb,Dab1,Soep,Centa1,Cd2,Zfp819,EG328314,Sema5b,Pax8,Meox2,Foxd3,D14ErtD668e,Rnf125,Fzd5,Acsbg2,Pla2g4e,Lrrn3,Adam23,5830431A10Rik,Tdh,C330004M20Rik,Pga5,LOC436089,Insm1,Glod5,Tmc3,D1pas1,Trim2,Rapgef4,Cpsf4,Slc5a1,Gjb1,Gm1631,Klf2,Fblim1,Pcyl1b,Fgf4,Usp28,Ptprj,Chma9,Kng2,Cobl,Ms4a10,Sept1,Scgb1c1,Slc47a1,Sh3gl2,Nr5a2,Gpa33,Tns3,Porcn,Exoc3l,Cd300e,Sfrp4,Zfp42,4932412D23Rik,Nf2,Erns,D16ErtD472e,Hsd17b14,Pitpnc1,St8sia1,Dusp27,Ankrd35,Ndg2,Kng1,Fbp1,Irga9,Slc5a11,Alpk3,Apod,Chmp4c,Sh2d4b,Esrrb,Egfl6,Blnk,Arid5b,Pla2g1b,Wnt5a,Arpp21,Mobb,Zfp532,Spry4,Sox2,Etv4,Ryr2,Mras,C78283,C330004P14Rik,Nsg2,Btnl1,Odz4,Kcnu1,Tmem132d,Pabpc3,Grlh2,Prdm5,Mycn,Nrp2,Dlgap3,9130401L11Rik,Wscd1,Pipox,Upp1,D730003K21Rik,Da pp1,Liph,Onecut1,Fgf3,Elmo1,Pcaf,Cd37,Arc,Ddc,2310067E19Rik,Sall3,Zfp518,Klf4,Sfrp1,Zic3,En2,Ildr1,Epb4.114a,Mup4,Trps1,Rfx2,Foxp1,Kit,Polr3gl,Igf2bp2,Timp4,Gad1,Gm216,Slc39a14,Lax1,Stc2,Gjb4,Tmprss12,8430430B14Rik,Pla1a,Ttn,Cyp4f14,L1td1,4930449E01Rik,Slc27a2,Csrp2,Scarb2,Pecam1,Slc12a8,Rcc2,Epha4,Lifr,Tmeff1,Sirt1,Konq2,Tm7sf4,Mylpf,Zic5,Enah,A830025M08,Lap3,Elavl4,Galnt9,Nfib,Zfp296,Ddx58,Oas1g,Aspa,Crtac1,Enpp3,St8sia6,Ptgs1,Ifitm1,Rarg,Ly75,Dock2,Meis2,Tmem2,Gna14,Gpr133,Tcf15,Rcor2,9330199F22Rik,Ccno,Tdgl1,Gfpt2,Sox13,Jmjd1a,Apobec3,Acp6,Msrb2,Slc1a3,Atcay,Capsl,Cacybp,A530088H08Rik,Ifitm7,Sap30,Rbmxl2,Crm p1,Gadd45a,Elavl2,Terf1,Prdm14,Adamts1,Otx2,Eps8,Nanog,Pigl,Armcx1,Ret2,4930432N10Rik,Gsta3,Ptpn3,Etv5,E2f8,Smardc1,Al427809,Fgd4,Ccdc113,Phc1,Jag1,Lr rn2,Mreg,Lonrf2,Ccdc3,Tmc5,A730049H05Rik,Casq2,Prdm1,Itpk1,Jmjd2c,Mfng,Cdyl2,Zfp57,Vwf,Ifitm3,Cnga3,Zfp518b,Ttyh1,Tfdp2,Cd80,Gsta4,C330048F19,Etac1,A430 010J10Rik,Gdf3,Mitf,Xkr5,Snta1,Batf,Runx1t1,Fbxw10,Inoc1,Elf2,Tiam1,Angpt2,Sco1,Cep55,Oit1,Nolc1,Ssr2,0610039H22Rik,Pole4,Nmnat2,Arhgef3,Pgc,Coro2b,Akr1b8,Dnahc17,Rif1,Tera,Lgals12,Btdb11,Zscan10,Psat1,Acss1,Speer4b,Rmnd5b,Ptprk,Slc25a40,Rfc5,Slc37a1,Dppa5a,Eed,Cplx1,Mobkl2c,Evc,Ifitm2,Mtss1,Rax,Mtdh,Bai1,Pou 5f1,Rpp25,Zfp106,Tp73,Rpl38,Derl3,Triml2,Tcea3,Adora2b,Epas1,1700049E22Rik,Ubr5,Dil1,Mgmt,Ypel2,Twistnb,Rassf10,Myst4,Tor3a,Ctbp2,Nrsn1,Susd2,Ccne1,Ppp2r 2d,Spic,Cds1,Sgk1,Igf1,Slc35f4,Klf15,Cdc37l1,Lypla1,Dcbld1,Chchd6,Cenpm,Irak3,LOC380850,Gnppat1,Ppfbp2,Dbx1,H2afz,Msh6,Pex13,Tff3,Fnbp1,Chd9,Jarid2,Rfng,R sph1,Tbc1d9,Glt1d1,9430078K24Rik,Nlrc4,4921511C04Rik,Gm867,Gtsf11,Lama1,EG545253,Zfp59,EG626231,Ifitm6,Brunol4,Tcerg11,Islr2,Hist1h2ae,Trpm1,TeX14,Rhcg,Slc6a1,Ptger2,Bnc2,Kcnh8,Tdrd12,Ryr3,Akr1c21,Sox21,Aard,Rnf138,Robo4,Ankrd36,Dpy30,Wdr20b,Mup5,Akap11,Yes1,Txndc2,Fez1,Akr1c12,5033426E14Rik,Hist1h2bp,Tmem45a,Spag6,Dcl3,C230088H06Rik,Cdyl,Frrs1,Slco4c1,Gpr1,Plcb4,Aire,Lix1,1110058D11Rik,Gyk,Gm428,D330037F02Rik,Tfpi,LOC432535,Tom1,Cth,Cml4,Tasp1,Ct nnal1,Vps26a,Tcea1,Pzp,Igkv4-90,Scn3a,Tal1,Bdh2,Aldoart2,Tmem40,Abcb5,Frmd5,Gm805,Frmd4a,Stmn1,Tiparp,Cradd,Fancl,Igfbp1,Bcat1,Ldhal6b,Zcchc10,Aass,Rragb,Esco2,Efcab2,Rab27a,Wdr47,Xab1,Cd96,Hells,Lmo2,Clnk,2410114N07Rik,Ppef2,I110,Lbxcor1,Tek,Pcolce2,Stk10,Zic2,4930455B14Rik,Hlf,Tubb3,Nkx6-2,Gpx2,Hhip,Rgs16,Foxd1,Hey1,Mcam,</p>
Nanog	Knockdown	-1	258	<p>Slc15a1,Inhbb,Mras,Notch4,Tcl1,Gad1,EG328314,Gsta3,Hck,Spp1,Oit1,Sfrp1,C330004M20Rik,Sema5b,Prmt8,Gli2,Lrrc34,Gjb4,Ttpa,Scgb1c1,Fzd5,Fbxw10,Spats1,Dlgap 3,Fut9,Erns,Spns3,Sh2d4b,C330048F19,Phf19,Nanog,8430430B14Rik,Cspg5,Kit,Pga5,Tubb2b,2310067E19Rik,Parvb,Hhip,Btnl1,Meox1,Cyb5r2,Irga9,Tnfrsf13c,Polr3gl,24 10152P15Rik,5830431A10Rik,Esrrb,Pax6,Zc3h12a,Scgb3a1,Blnk,Tm7sf4,Gjb5,Cpsf4,C330026N13Rik,Gm1967,Jak3,Alpk3,Camk2n1,Lag3,Nfib,Tha1,Gm1679,Pde9a,Ifit m1,C130034I18Rik,Ntn1,Zyg11a,Ildr1,Meox2,Pdyn,Prdm1,Klf4,Ablim2,Jakmip1,Mov10,Manba,Zmat4,Gem,Morc1,D1pas1,Igfsf21,Ncam1,Ggt1,Prdm14,Atp1b2,Gfod1,Nsg2, Chst8,Oas2,2210417A02Rik,Ddx58,Gpr133,Prkag1,Lrrn3,Zfp59,Zfp459,Fahd1,Bcl3,Ptgs1,Piwil4,Kcnj12,Smtnl2,Crtac1,Slc28a1,Trpm1,Fxyd6,Tcte1,Mitf,Mylpf,Apod,Itpk1, Niban,Ifitm7,Cxcr7,Trps1,Mobkl2c,Parp14,Cep55,Ccr7,Pdcl2,5830454E08Rik,Cdyl2,Ccna1,Lonrf2,Mical1,Lgals12,Zfp42,Sult6b1,Lima1,Tmem132d,Gjb3,Slc44a4,Tff3,Apob ec3,Slc37a1,Siglec5,Zbtb7c,Pabpc3,Cobl,Nanos3,Susd2,Gjc1,Fbxo36,Rage,Gcm2,Centa1,Jam2,Nkx6-3,Aqp3,Mme,Pgc,Abcg1,Etv4,Scd2,Gm216,Myst4,Socs3,Cenpm,Nf2,Vstm2l,Col13a1,Sorl1,Gna14,Rnf125,Egln3,Elf2,Calcb,Zfp273,2900041M22Rik,Krt42,Erc2,Inhha,Mapt, Tcfcp211,St8sia6,Epb4.114a,Aebp2,Hsd17b11,Acp5,Armc2,Spic,Slc7a3,Rpp25,Osm,Tmem136,Hsd17b14,Ankrd35,0610039H22Rik,Aym1,Erf,Acp6,Grik4,Rpl38,Gbx2,Dppa 3,Rab39,Hap1,Ttyh2,Fabp3,Gm1631,Cd37,Ifitm2,Igll1,Gabrp,Lrrc2,Stmn2,Dcl2,Ldhh,Nr5a2,Lrrn2,Triml2,Gfpt2,Ifitm6,Morc2b,Ankrd44,Sirt4,Isoc2a,Tgm1,Scd1,Grtp1,Tulp 2,Ddc,Rab27a,Cox7a1,Hsh2d,Hivep3,Krt17,Zfp819,Centb1,Tmem106a,Aph1a,Sept1,Tjp3,Sh3gl2,Pla2g4e,Myom2,Slc6a1,Ptger2,She,Pcdh21,2810011L19Rik,Serpinb6c,A k7,Slc1a1,ORF28,Slc5a1,Pcyt1b,Nhedc2,Atp2b2,Oas1g,Gprc5e,9530020007Rik,Kcnip2,Cpne5,Acaca,Calr3,</p>

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