

Supplementary Information

Global dynamics of stage-specific transcription factor binding during thymocyte development

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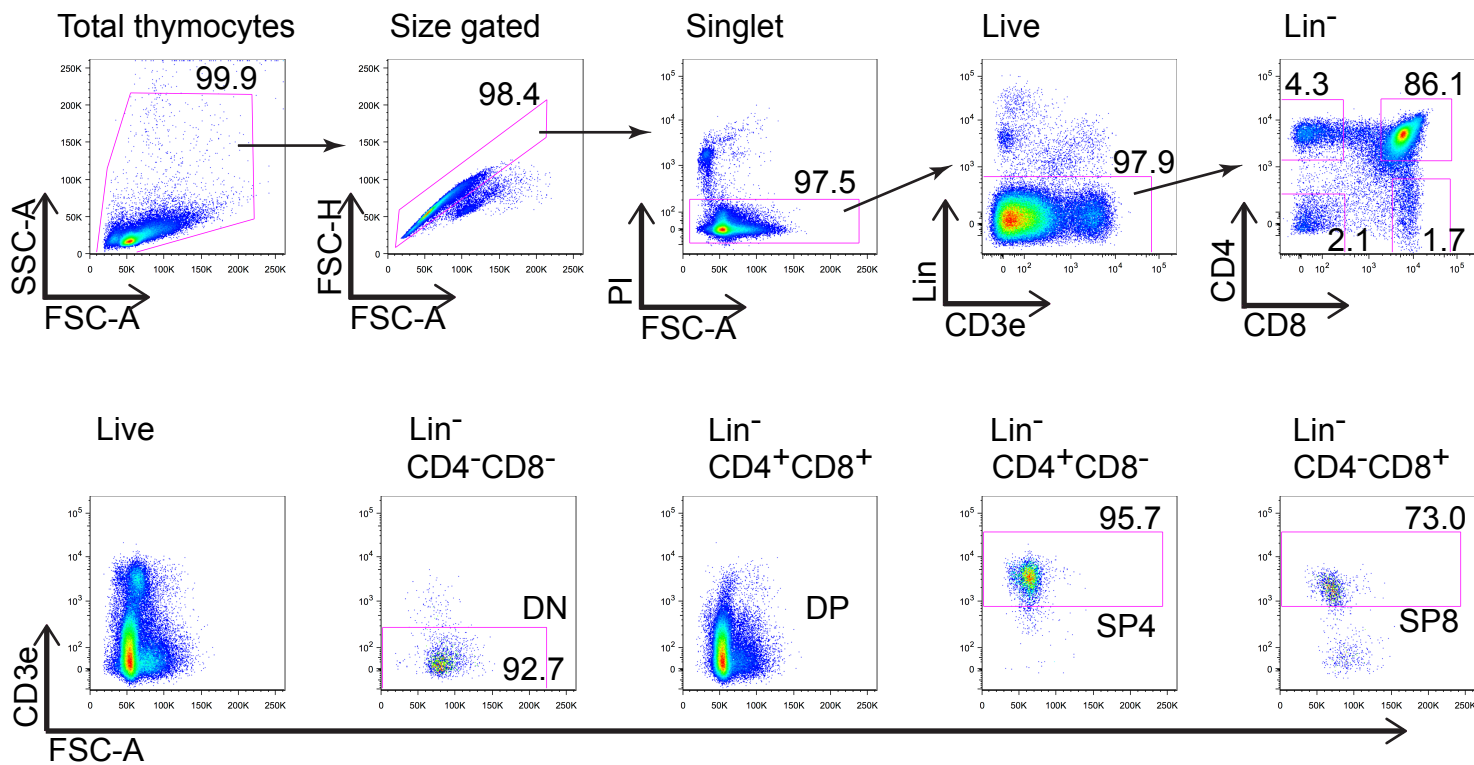
Ann Arbor, Michigan 48109-2200

* Co-first authors

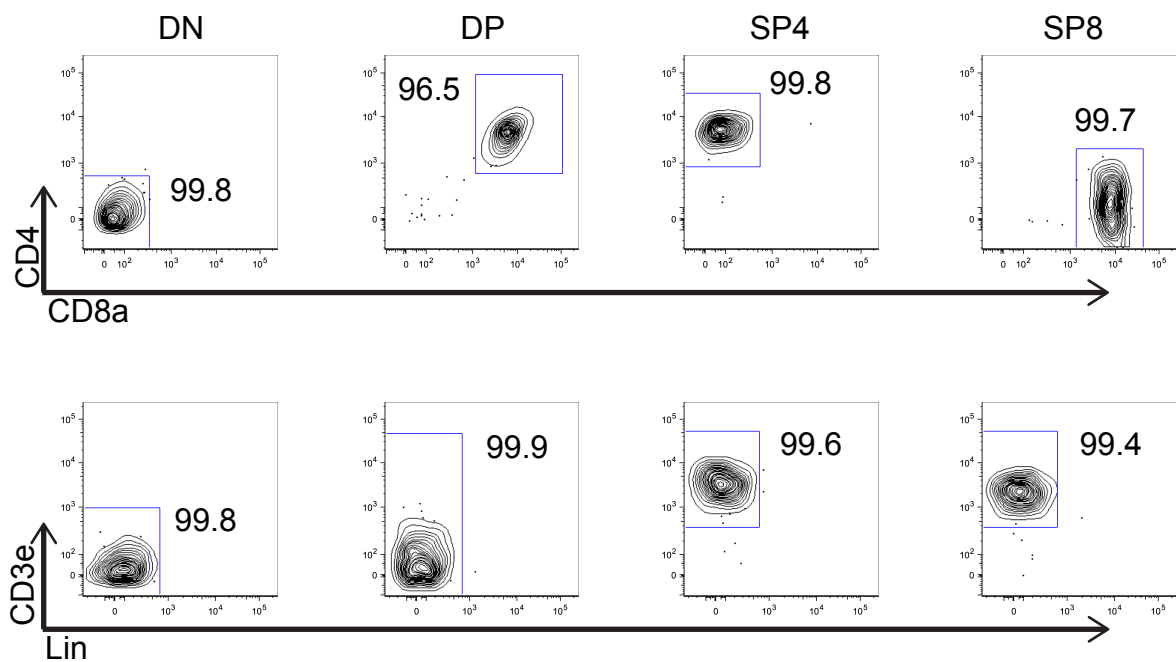
Supplementary Figure S1. Isolation of staged thymocytes. (a) Individual stages of thymocytes were isolated using a FACSAria III (BD). Representative dot plots from 1 mouse (out of 4 animals examined in two different experiments) are shown. Area Scaling was set with total thymocytes and doublets were gated out using FSC-A vs. FSC-H. PI was used to discriminate dead from live cells. The gates (blue) are shown for DN ($\text{Lin}^- \text{CD4}^- \text{CD8}^- \text{CD3}^-$), DP ($\text{Lin}^- \text{CD4}^+ \text{CD8}^+$), SP4 ($\text{Lin}^- \text{CD4}^+ \text{CD8}^- \text{CD3}^+$) and SP8 ($\text{Lin}^- \text{CD4}^- \text{CD8}^+ \text{CD3}^+$) cells. The numbers near the boxed areas indicate the mean percentage of cells in each gate. The lineage cocktail used was a mixture of e450-conjugated antibodies recognizing TER119 (TER119), B220 (RA2-6B2), CD19 (1D3), Mac1 (M1/70), Gr1 (RB6-8C5), CD11c (N418), NK1.1 (PK136) and gdTCR (GL3). Cells were also stained with PECy-CD4 (RM4-5), APC-CD8 (53-6.7) and PE-CD3e (145-2C11) purchased from eBiosciences or BioLegend. (b) A small fraction of the sorted cells were reanalyzed to check for purity.

Supplementary Figure S1

A



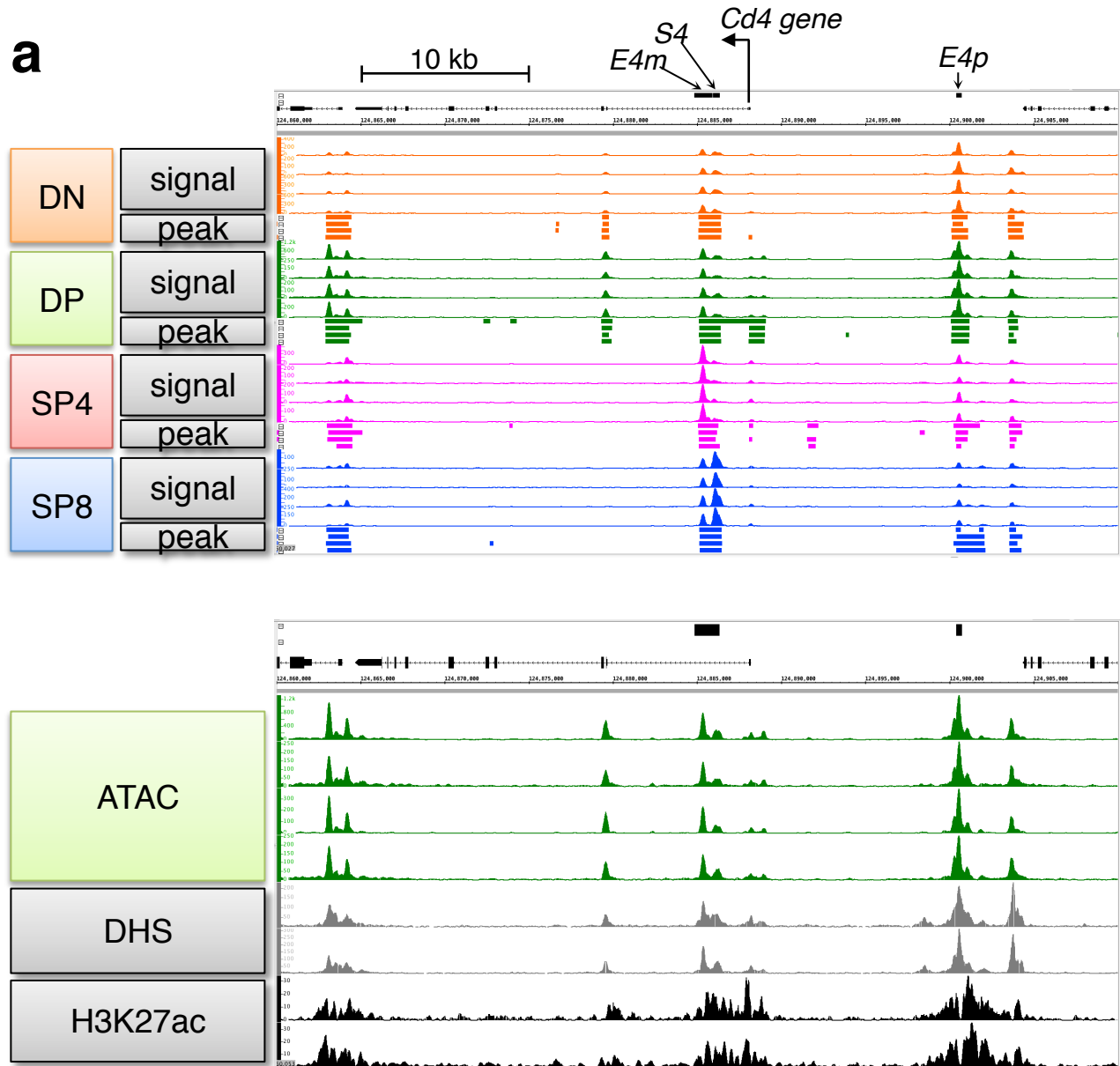
B Sorted cells



Supplementary Figure S2. ATAC-seq profiles of thymocytes. ATAC-seq signals (MACS2 bedgraph converted to bigwig format) and peaks (MACS2 broad peak calling) surrounding the *Cd4* (a), *Cd8* (b) and *Trb* (c, encoding TCR β), *Gata3* (d) loci and *TCE1* enhancer for *Gata3* gene (e). Data are on the IGB browser around 50 kbp of the *Cd4* locus (a, mm10, chr6:124,860,001-124,910,000), around 100 kbp of the *Cd8* locus (b, chr6:71,300,001-71,400,000), around 50 kbp of *Trb* gene beta enhancer (c, *E β* , chr6:41,520,001-41,570,000), within +/- 1.2 Mbp of the *Gata3* gene (d, chr2: 8,600,001-11,000,000) and around *TCE1* enhancer for *Gata3* gene (e). (Top) ATAC-seq peaks were generated in quadruplicate in order to analyze chromatin accessibility in DN (orange), DP (green), SP4 (pink) and SP8 (blue) stage thymocytes. (Bottom) ATAC-seq peaks in DP stage (green), which compose approximately 85% of total thymocytes, were compared with DNase-seq (DHS, middle, ENCODE, ENCSR000COB, isogenic replicate 1 and 2) and H3K27ac ChIP-seq (bottom, ENCODE, ENCSR000CCH, isogenic replicate 1 and 2) in thymocytes.

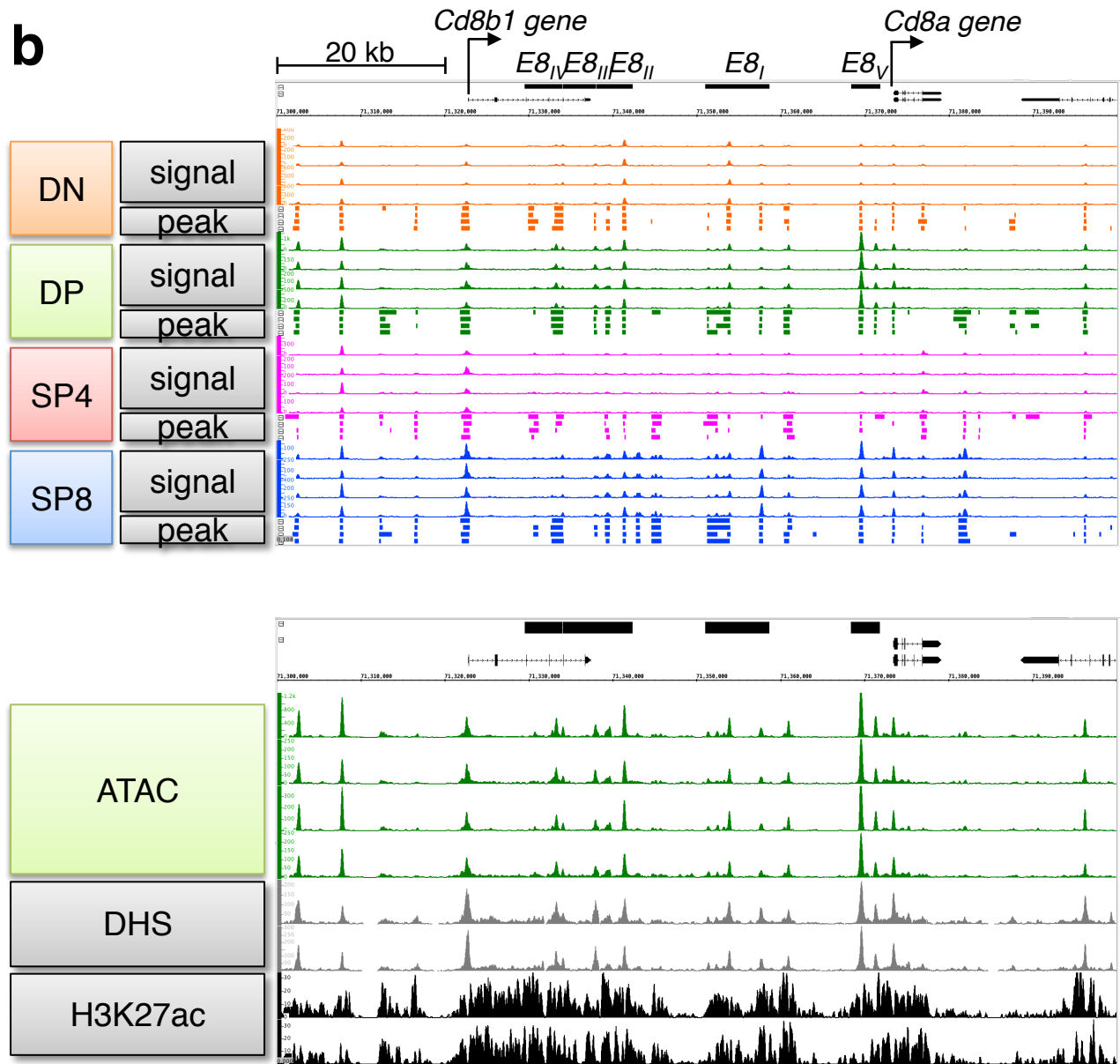
Supplementary Figure S2

a

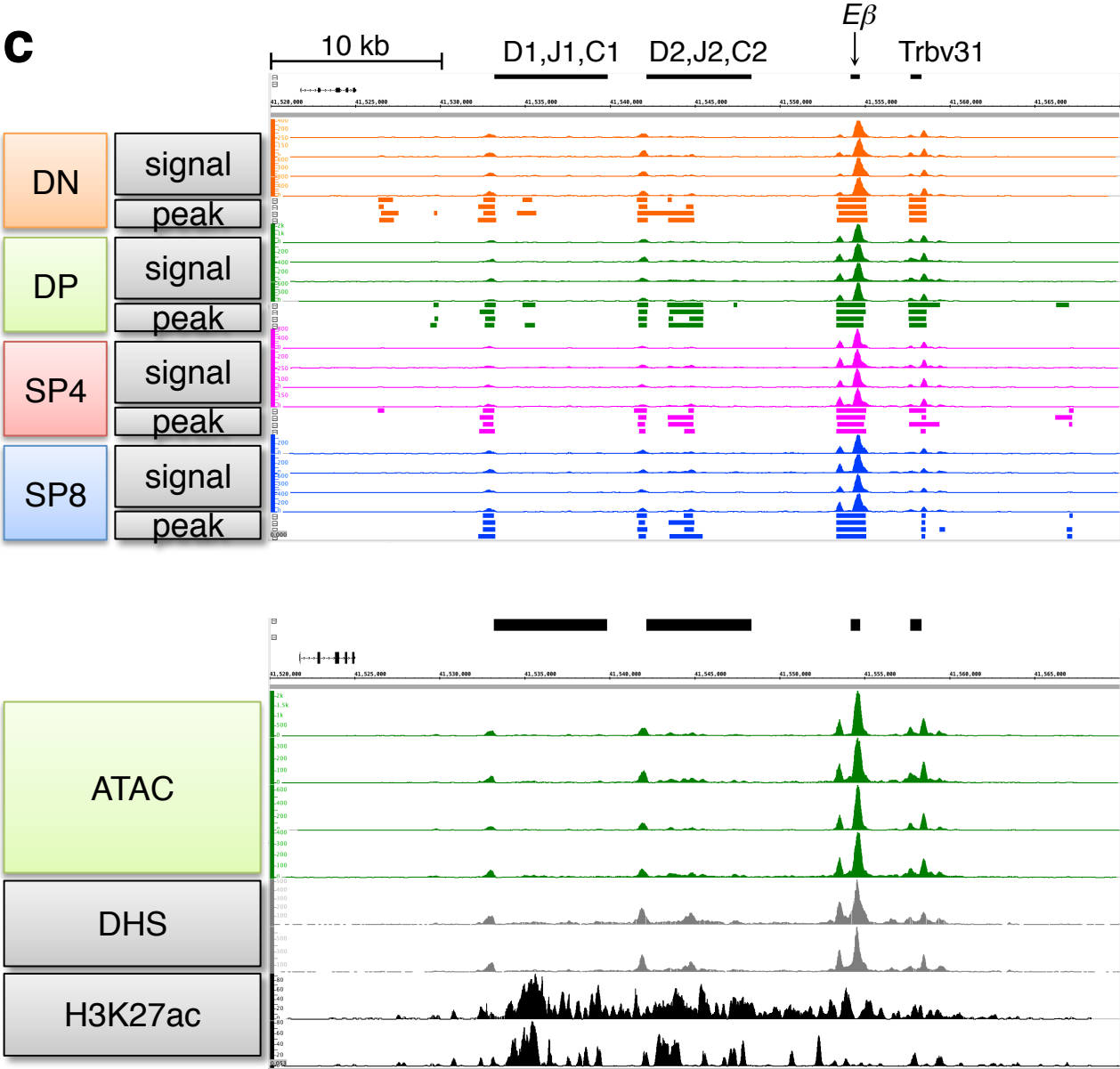


Supplementary Figure S2 (cont'd)

b

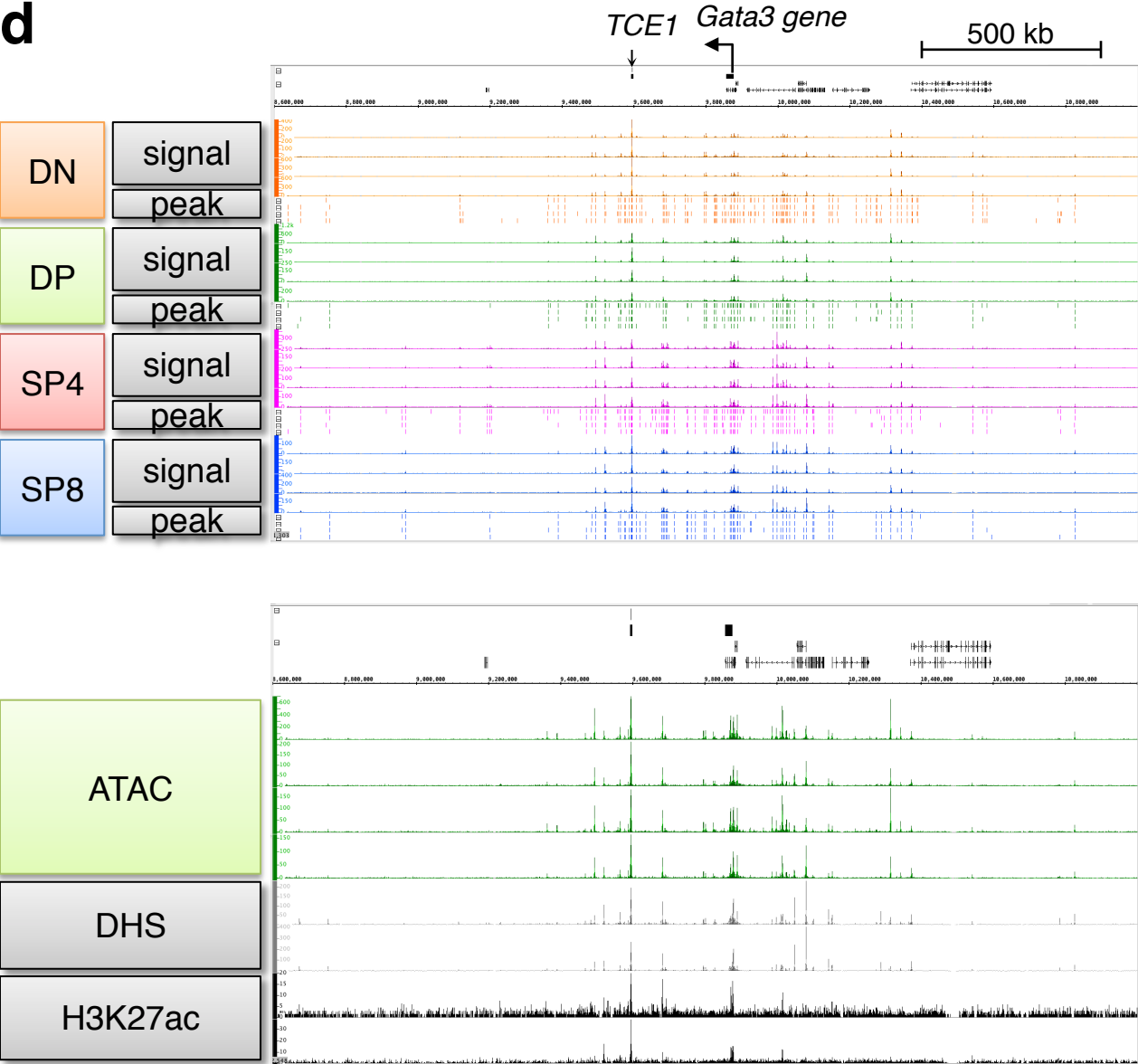


Supplementary Figure S2 (cont'd)



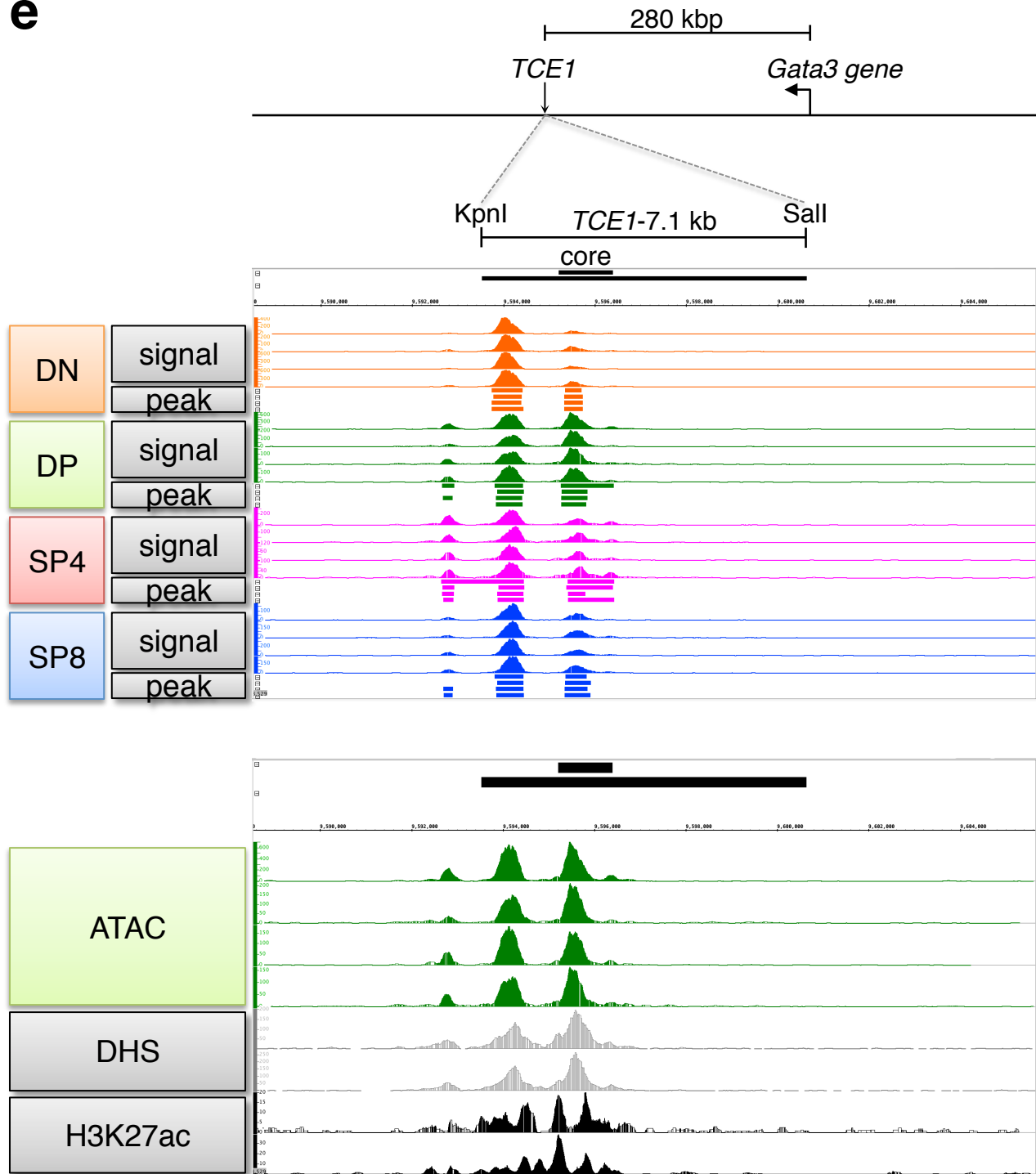
Supplementary Figure S2 (cont'd)

d



Supplementary Figure S2 (cont'd)

e



Supplementary Figure S3. Correlation of the ATAC-seq signal between replicates. (a)

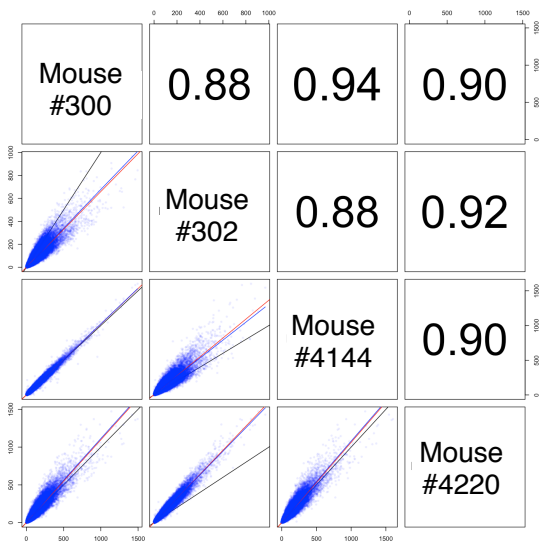
Correlation between ATAC-seq libraries. (b) Correlation between DP ATAC-seq libraries and adult thymocytes DNase-seq data from total adult thymocytes (ENCODE, ENCSR000COB)¹.

Bottom facets: each data point corresponds to an ATAC-seq peak that was called in at least one sample (see Methods). The values plotted are the number of fragments in each peak in the corresponding samples (labelled on the diagonal), and the red and black lines correspond, respectively to the linear model fit from the two datasets and the identity (*i.e.* $x = y$). Upper facets: Spearman correlation values for the comparisons.

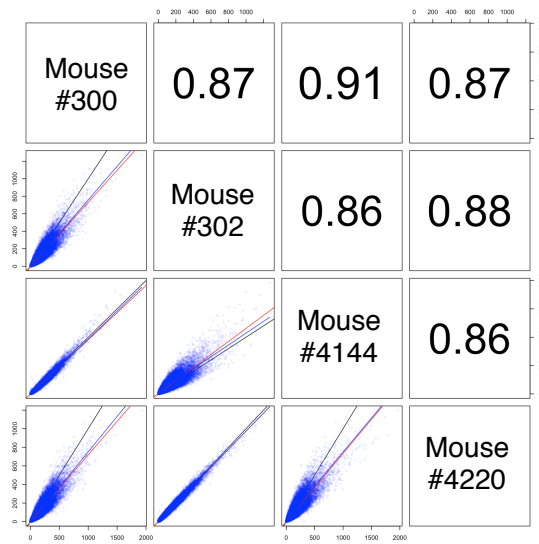
Supplementary Figure S3

a

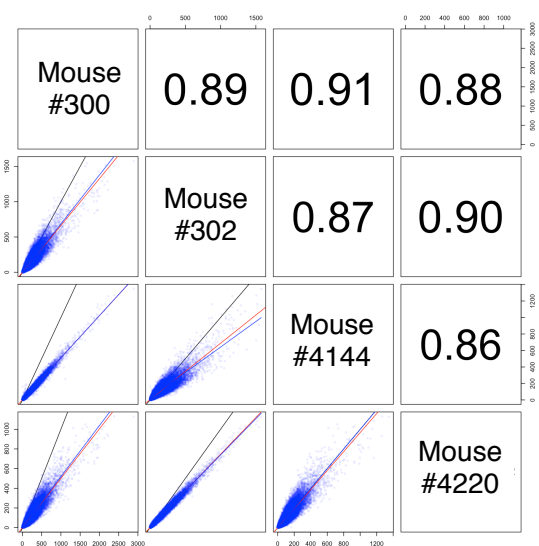
DN



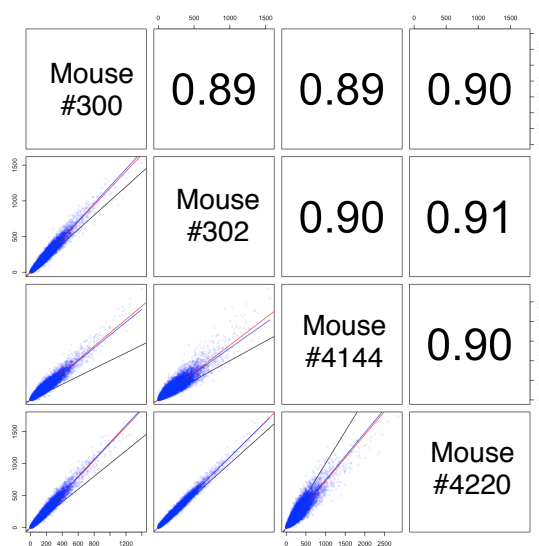
DP



SP4

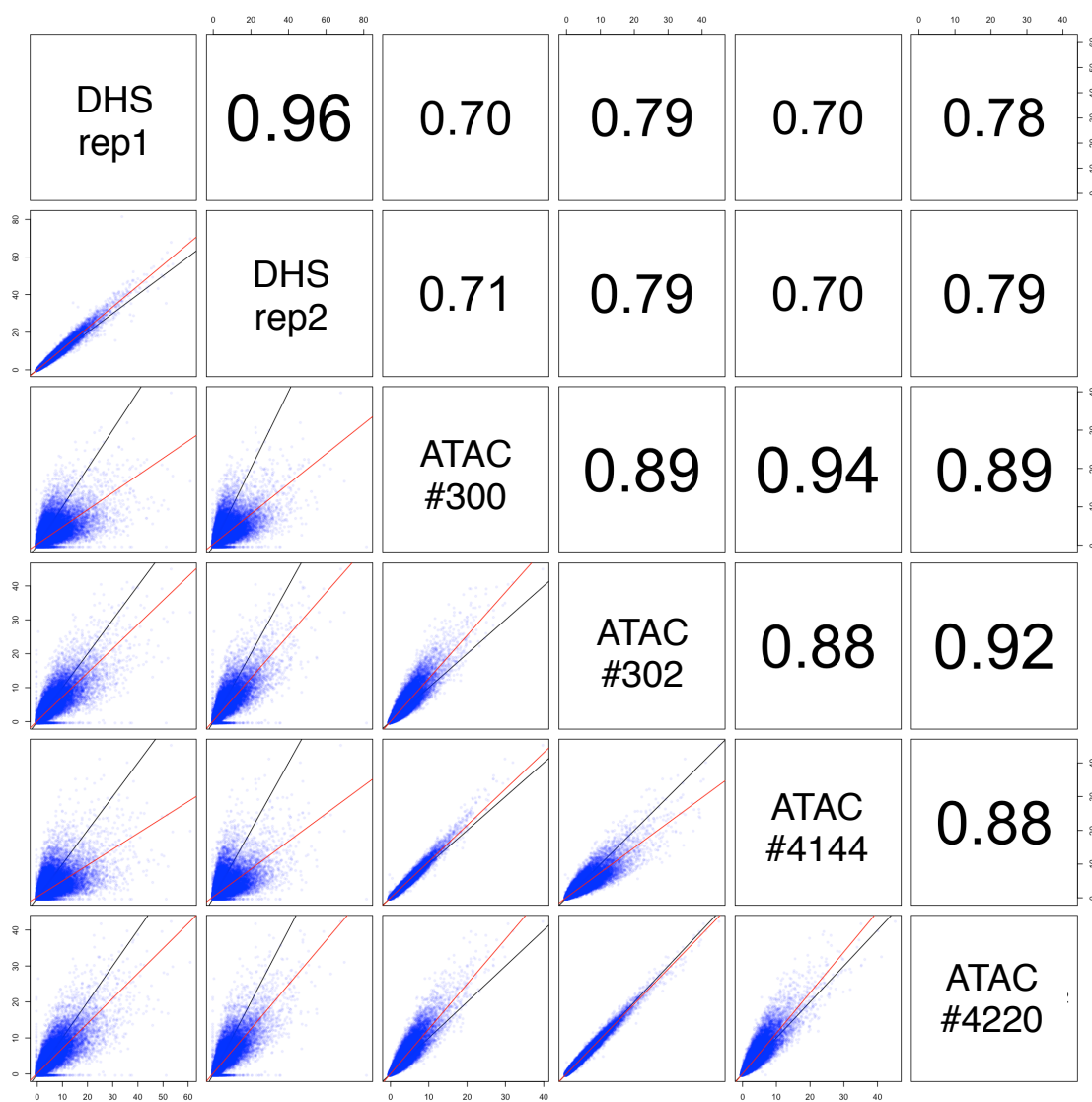


SP8



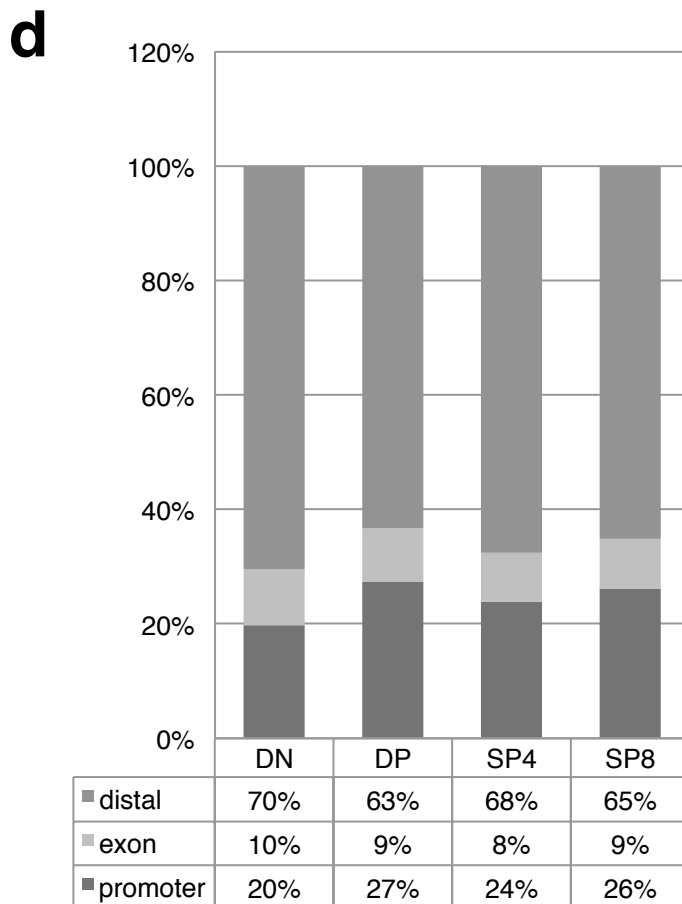
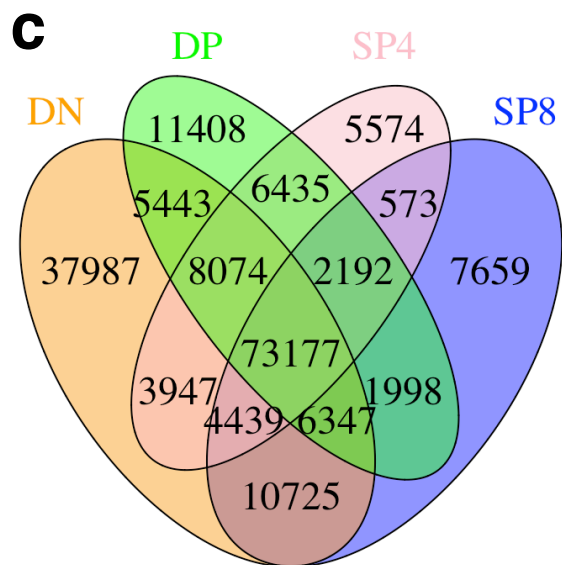
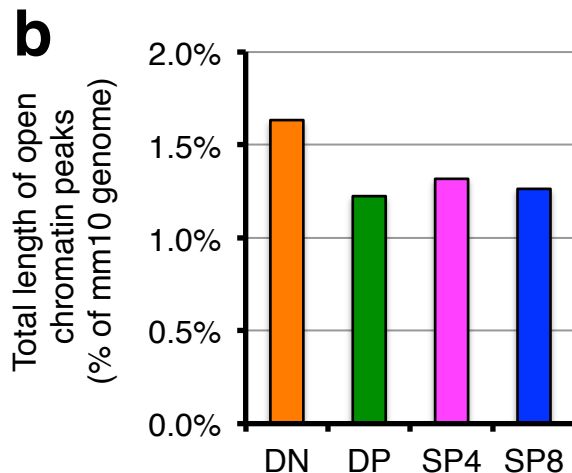
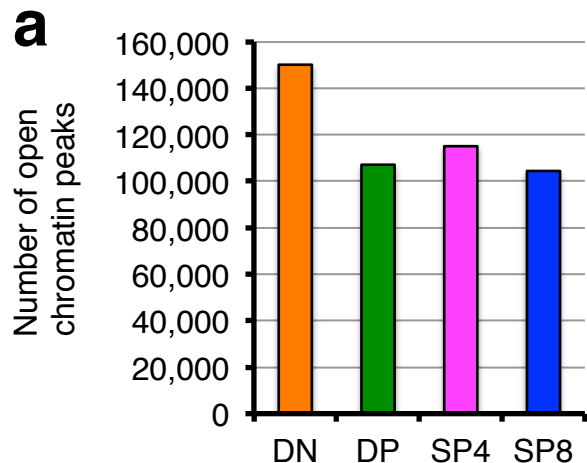
Supplementary Figure S3 (cont'd)

b



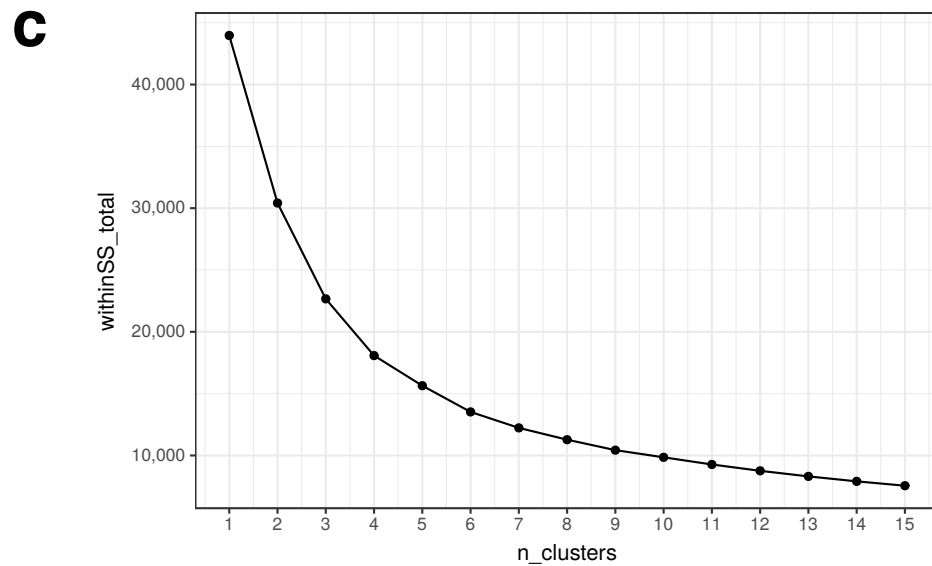
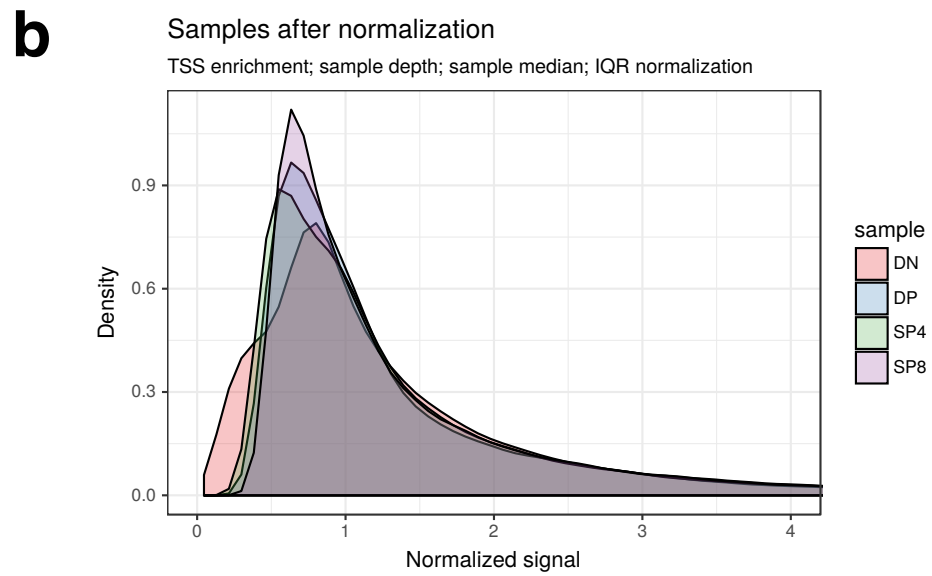
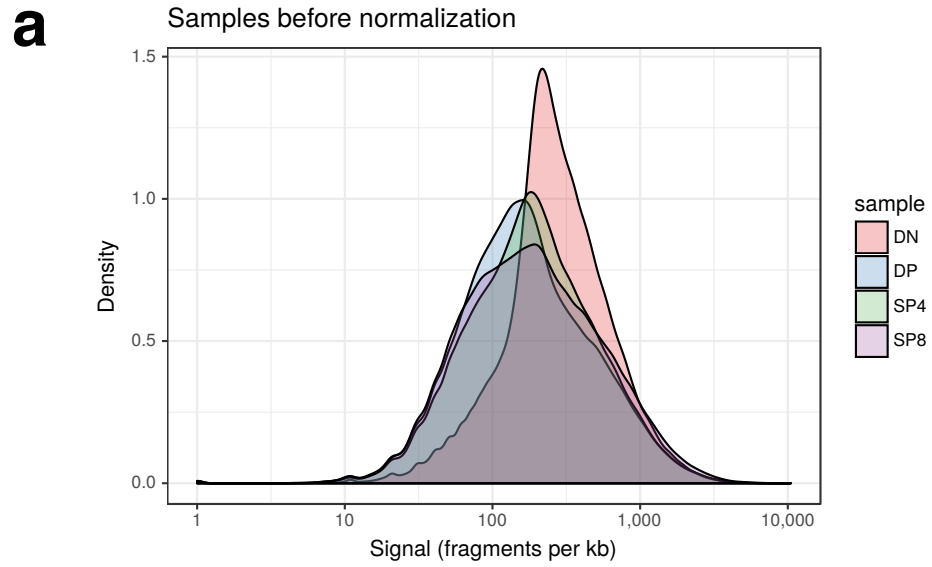
Supplementary Figure S4. Open chromatin regions defined by ATAC-seq peaks. (a) Number of ATAC-seq peaks in DN (orange), DP (green), SP4 (pink) and SP8 (blue) stage thymocytes. (b) Total length of ATAC-seq peaks assigned by MACS2 (narrow peak calling) is shown as a fraction of the whole mouse genome length. (c) The overlap among ATAC-seq peak calls at the four stages examined in this study is shown as a Venn diagram. (d) ATAC-seq peaks that overlap within 200 bp 5' to a gene were characterized as promoters (left). The peaks that overlap with exons, but are not with the promoters, are shown as exons (middle). The peaks that overlap with neither promoters nor exons are characterized as distal (right). The gene annotations were downloaded from the UCSC Table Browser. Annotations for RefSeq genes and UCSC genes are combined.

Supplementary Figure S4



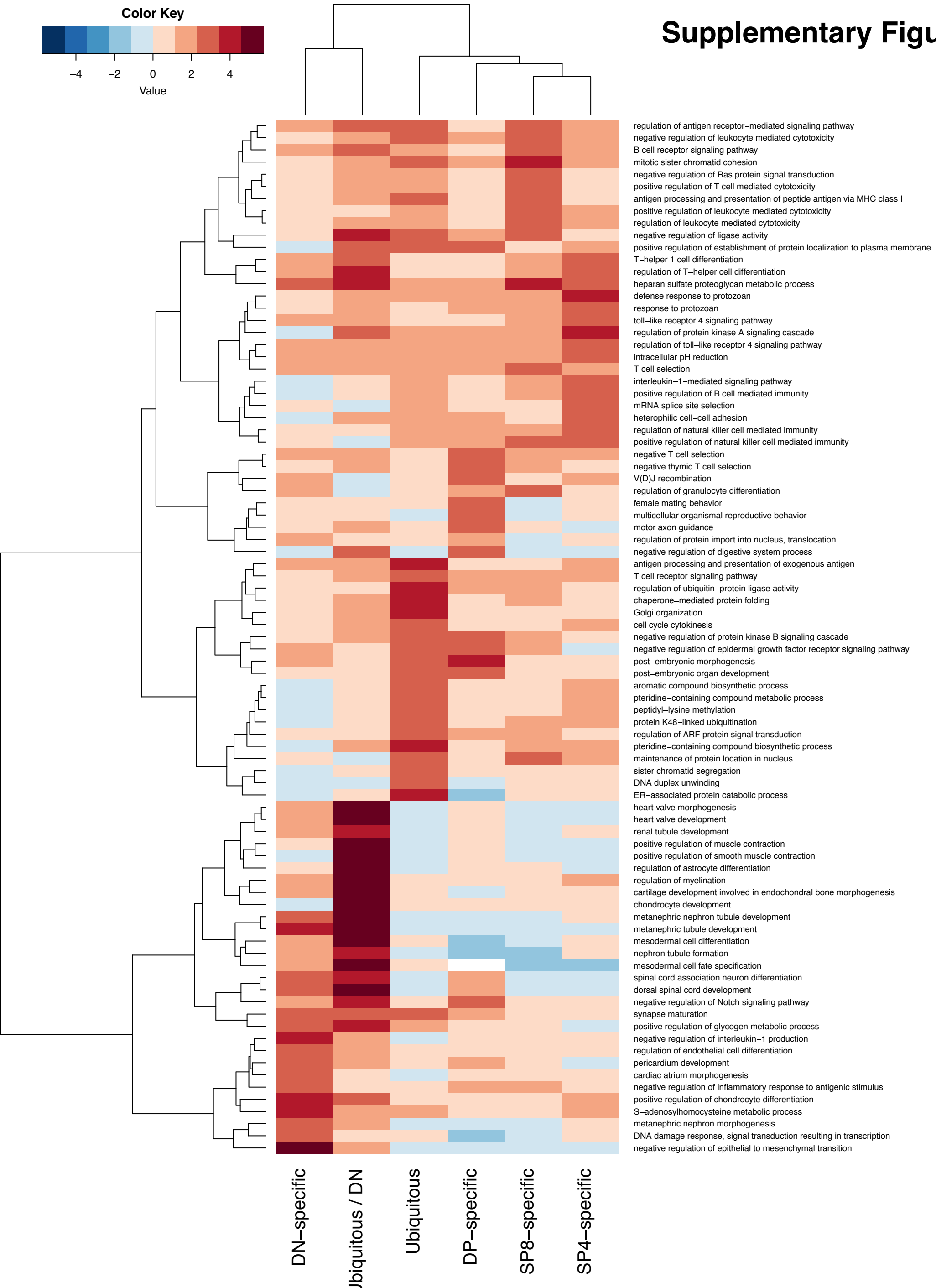
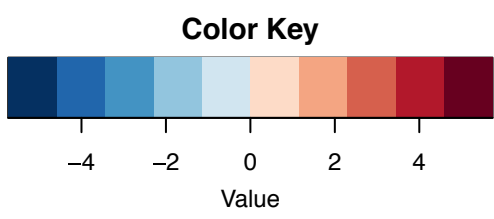
Supplementary Figure S5. Additional information on *k*-means clustering. Distribution of the ATAC-seq signal in the master peaks before (a) and after (b) normalization. (c) Elbow plot showing variances within clusters for each value of *k*.

Supplementary Figure S5



Supplementary Figure S6. CHIP-Enrich results for the ATAC-seq clusters. GO term enrichment values for the top 15 terms called in each of the clusters and their corresponding enrichments for all clusters.

Supplementary Figure S6



Supplementary Figure S7. Footprint enrichment results from GAT. Heatmaps showing GAT enrichments of each of the motifs for the individual *k*-means clusters in (a) DN, (b) DP, (c) SP4, and (d) SP8 samples.

Figure S7a
DN

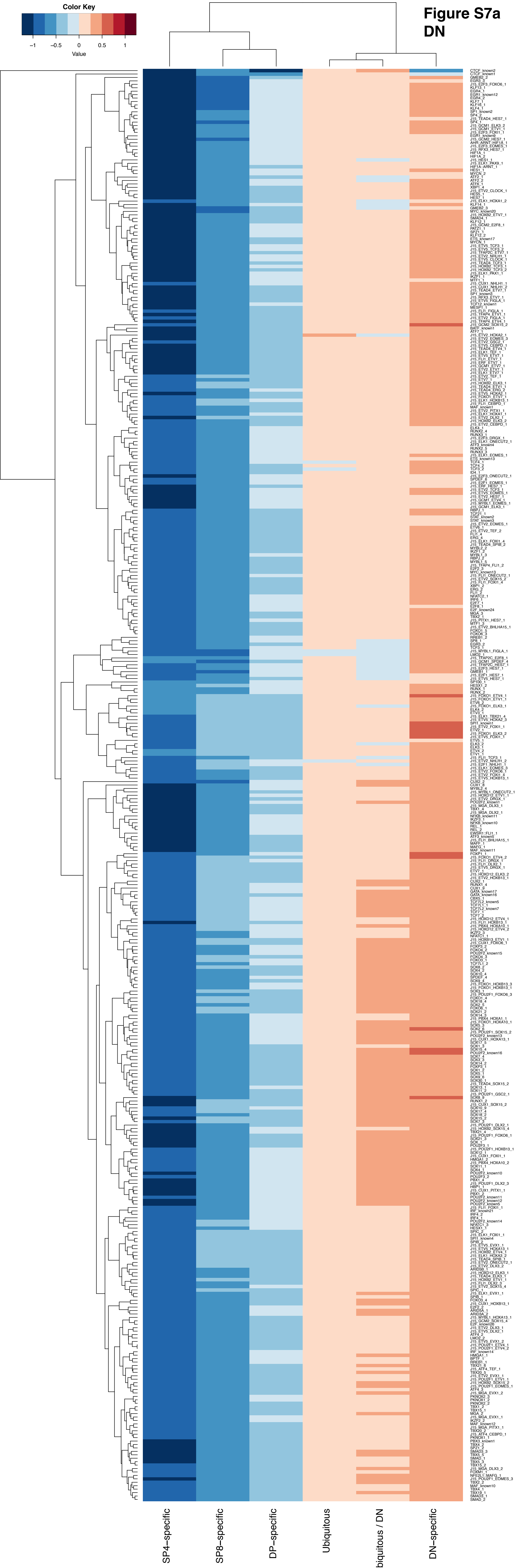
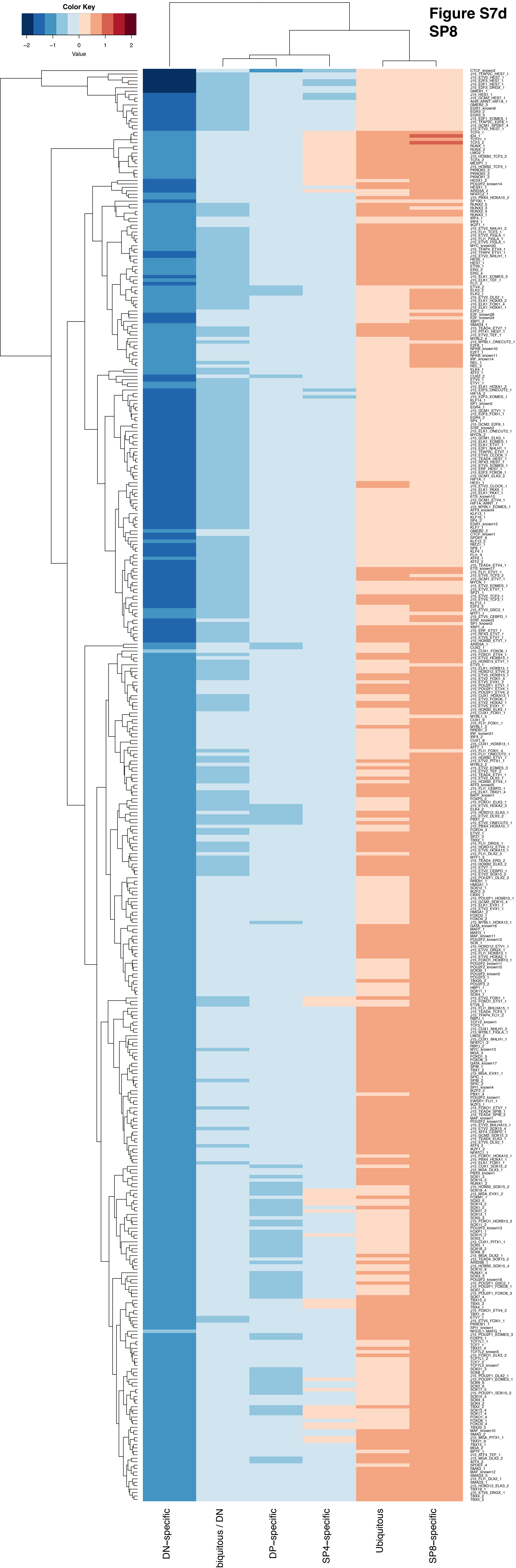


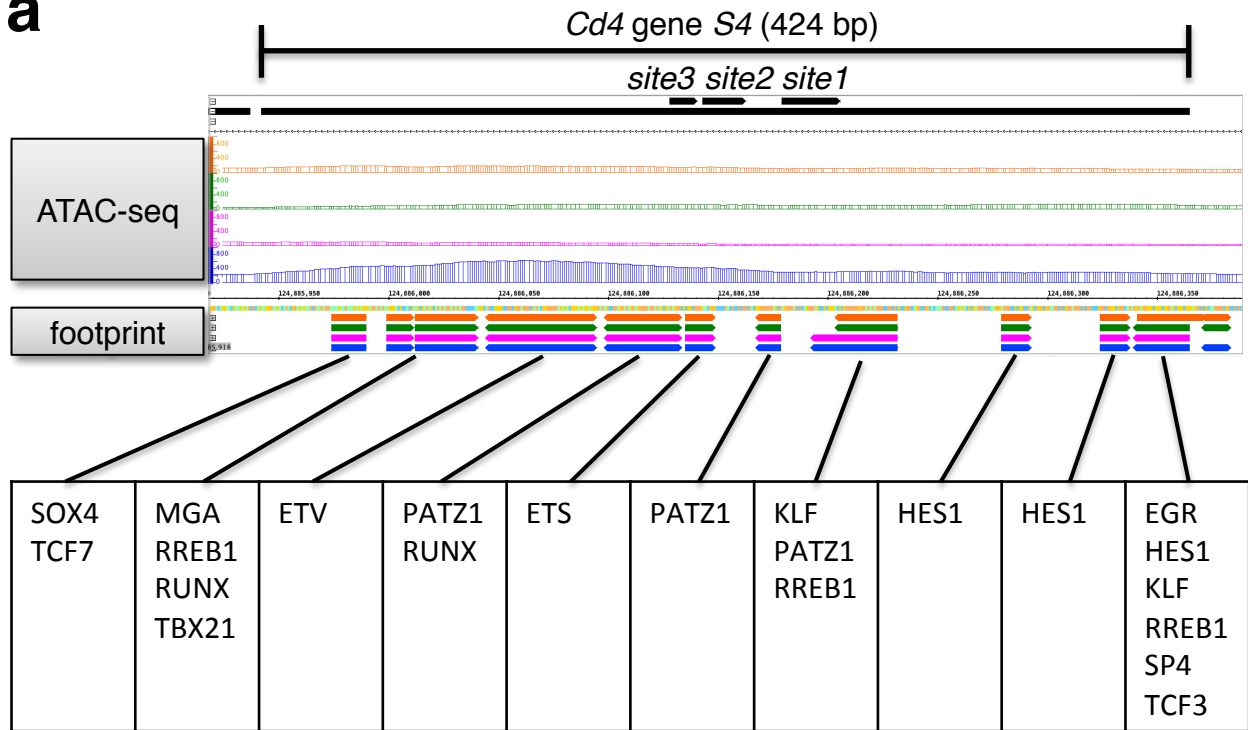
Figure S7d
SP8



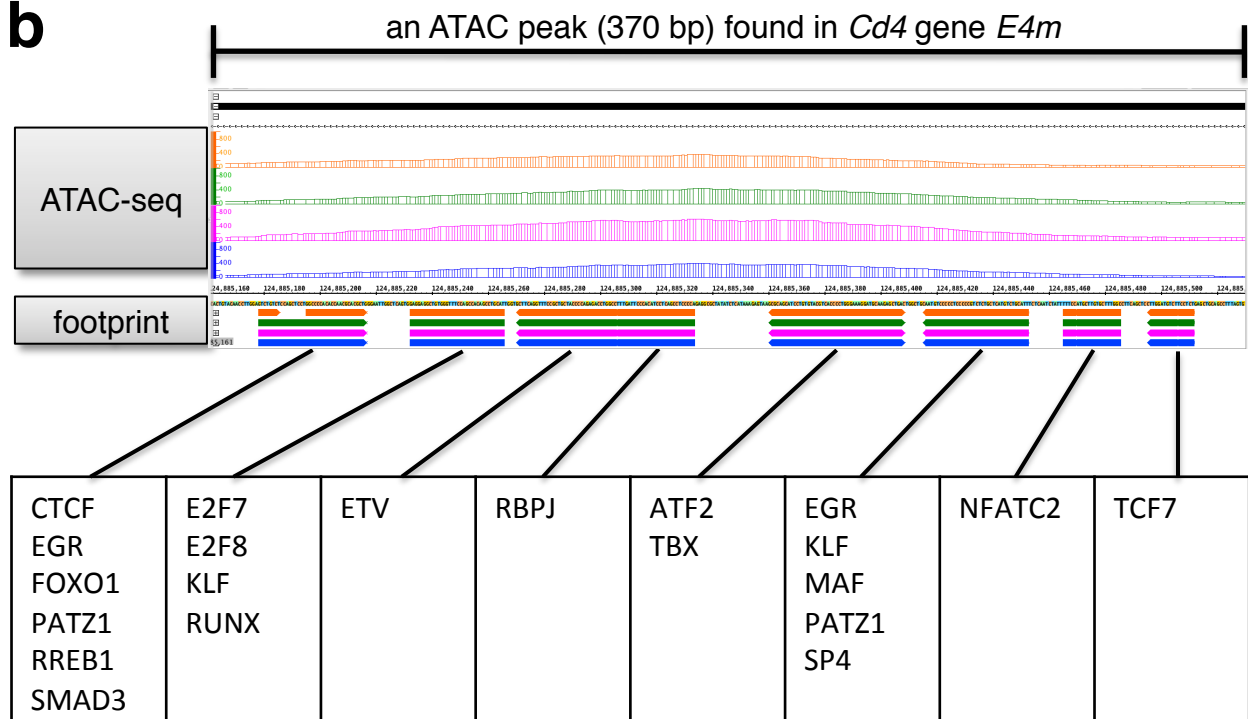
Supplementary Figure S8. CENTIPEDE footprint calls within functionally validated regulatory elements for the *Cd4* gene. Related to Fig. 2. ATAC signals and footprint calls around *S4* silencer (a) and *E4m* enhancer (b). Transgenic reporter analyses have shown that *Cd4* transcription is regulated by at least two proximal enhancers (*E4p* and *E4m*) and a silencer (*S4*)²⁻⁴. In mice ablated for *E4p* only, CD4 expression was reduced in pre-selection DP thymocytes⁵ but was completely abrogated when both *E4p* and *E4m* were deleted⁶. Removal of *S4* from the mouse genome resulted in ectopic *Cd4* expression in DN and SP8 cells, which are both CD4-negative in wild type mice⁷⁻⁹. We identified ATAC-seq open chromatin regions in the *Cd4* locus *E4p*, *E4m* and *S4* (Fig. 2). The ATAC-peak at *E4p* belongs to DP-specific cluster shown in Fig. 1a, while the ATAC-peak found in *E4m* belongs to SP4-specific cluster, in keeping with its developmental function^{5,6}. The open chromatin at *S4* belongs to SP8-specific cluster, as would be expected from its *Cd4* gene silencing function. Minor open chromatin regions were also found approximately 3 kbp 5' to *E4p*, as well proximal to the *Cd4* 1st and 2nd exons. Our digital footprint data in mouse primary thymocytes identified approximately 10 sequences bound by protein within *E4p*, *S4* and *E4m*, respectively. Based on known and novel protein binding found here, we propose that approximately 10 proteins shown in bind to/around *E4p*, *S4* and *E4m* in order to contribute to activity of the enhancers/silencer.

Supplementary Figure S8

a



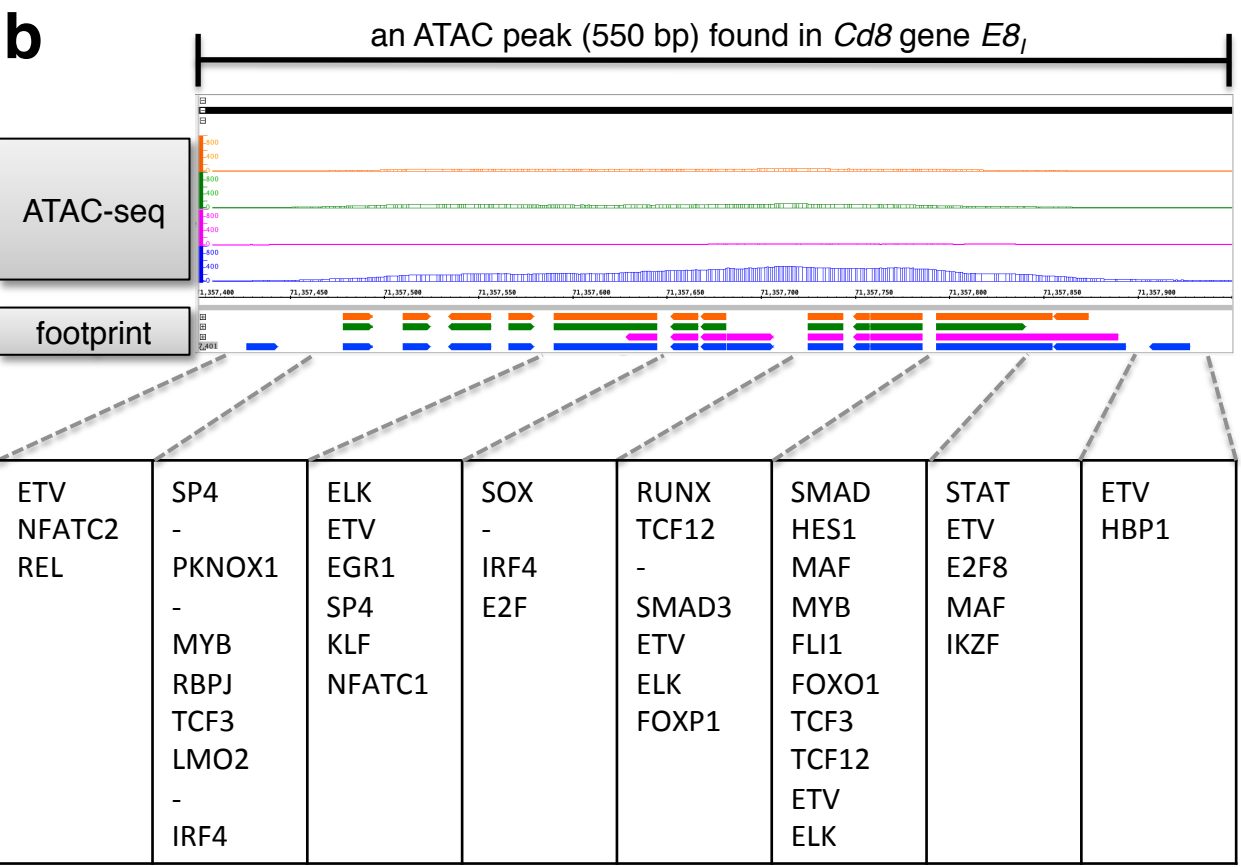
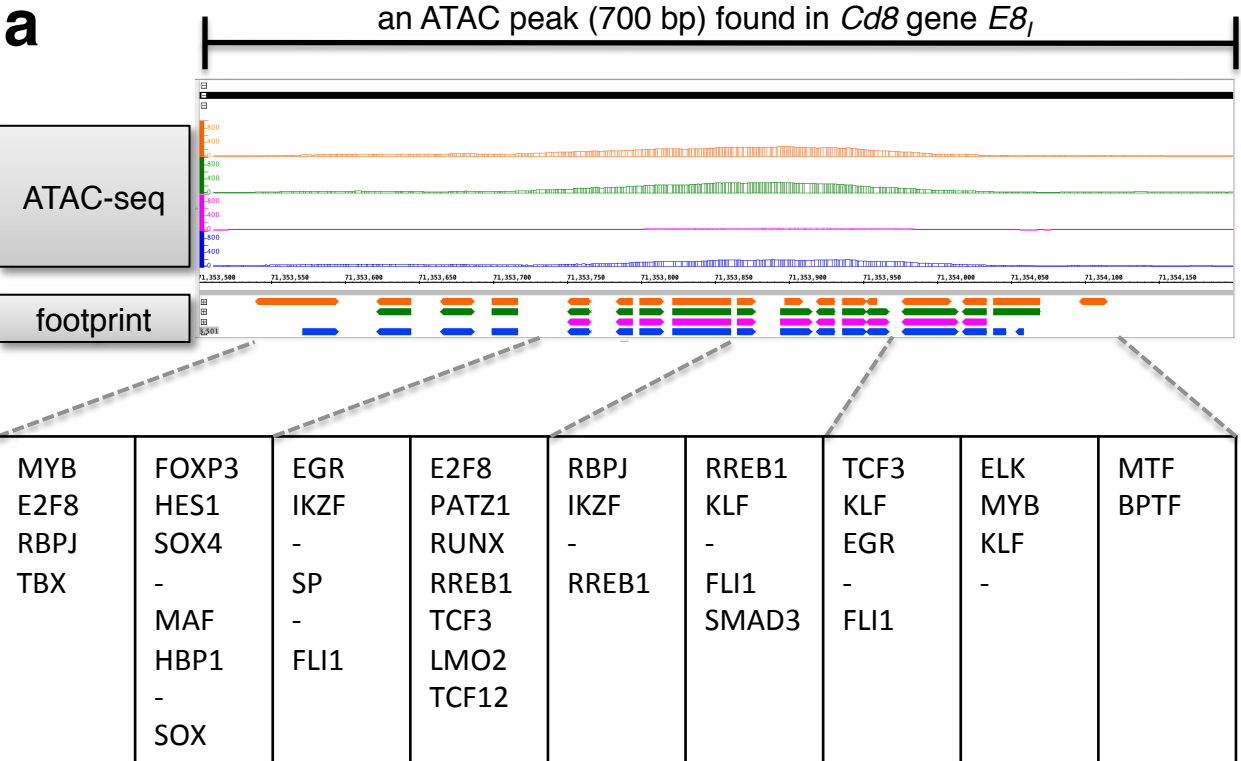
b



Supplementary Figure S9. CENTIPEDE footprint calls within functionally validated enhancers

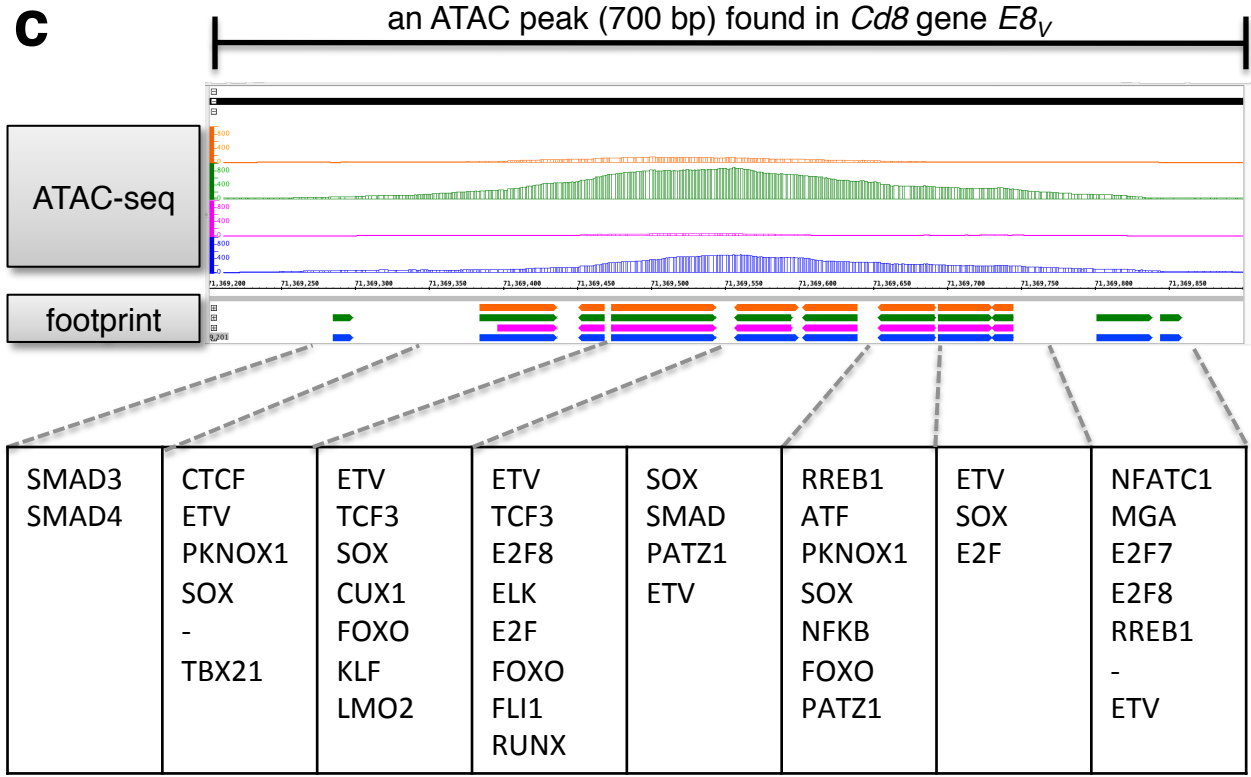
for the *Cd8* gene. Related to Fig. 3. ATAC signals and footprint calls within peaks found in *E8_I* silencer (a,b) and *E8_V* enhancer (c,d). Transgenic reporter analysis showed that expression of the *Cd8* genes is regulated by multiple enhancers (*E8_I*, *E8_{II}*, *E8_{III}*, *E8_{IV}* and *E8_V*)¹⁰⁻¹². Removal of either *E8_I*/*E8_{II}* or *E8_V* from the mouse genome results in reduced CD8 expression^{13,14}. In the present analysis, open chromatin regions were identified in the *E8* enhancers and exons, but also revealed the presence of possibly novel and previously undetected regulatory elements (Fig. 3). The footprint data recapitulated TF binding to IKAROS motifs¹⁵, RUNT motifs¹⁶ and PATZ1¹⁷ motifs within the known *Cd8* enhancers. We conclude that experimental information obtained at the *Cd4* and *Cd8* loci by ATAC demonstrate agreement between protein binding to previously well characterized enhancers (and one silencer) and our footprint predictions, supporting the hypothesis that TF footprints revealed by ATAC-seq provide a reliable complement to experimental CHIP-qPCR and CHIP-seq data. This highlights the use of ATAC-seq to generate highly informative predictions of TF binding to regulatory elements prior to experimental validation.

Supplementary Figure S9

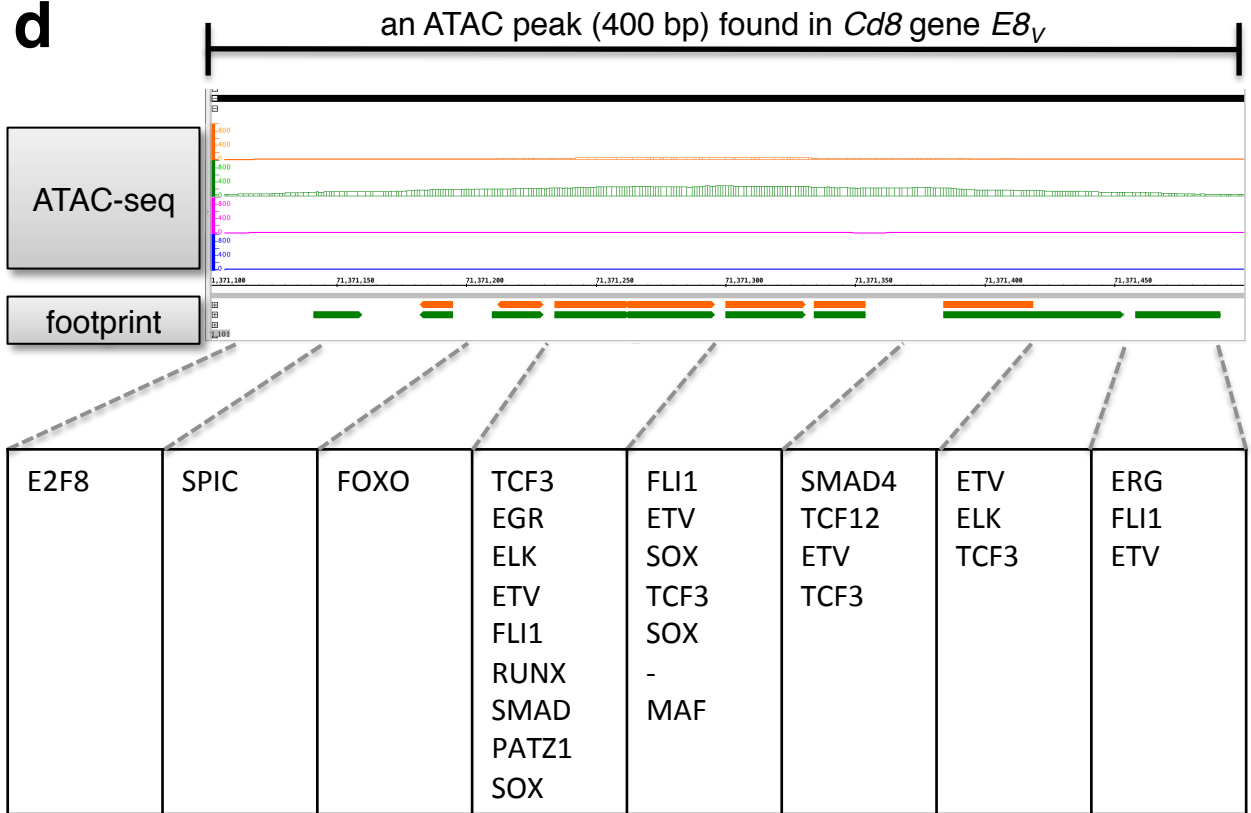


Supplementary Figure S9 (cont'd)

c



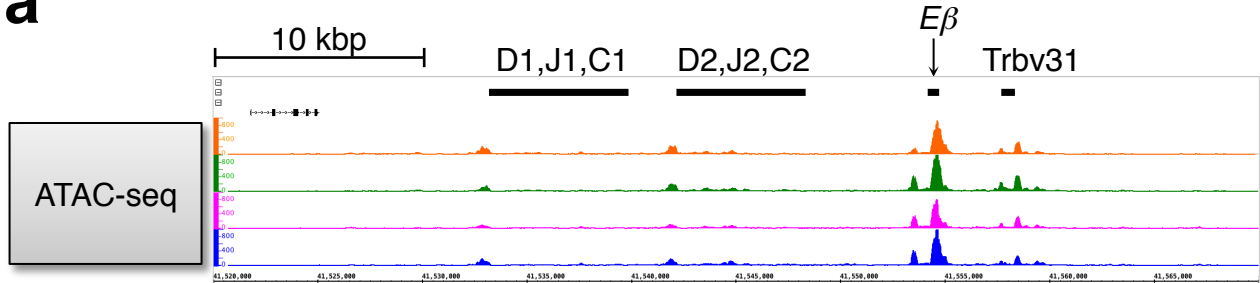
d



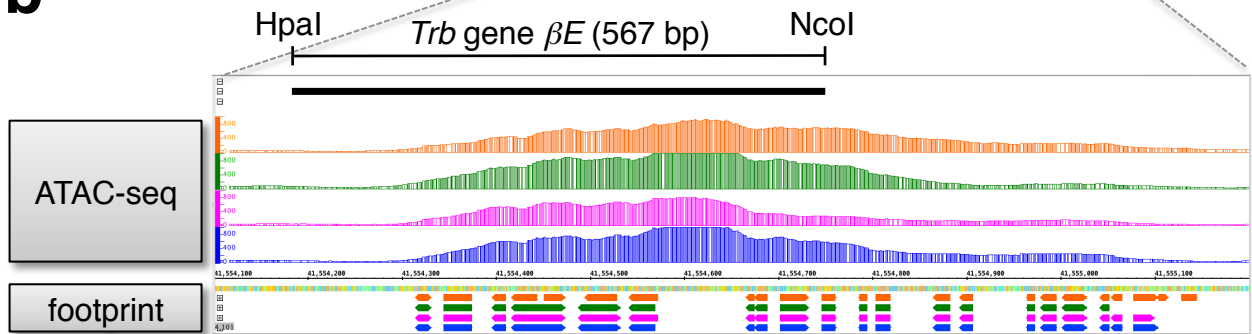
Supplementary Figure S10. ATAC-seq signal and CENTIPEDE footprint calls around functionally validated βE enhancer for the *Trb* gene. (a) ATAC-seq signals are shown on the IGB browser within around 50 kbp of the *Trb* locus (encoding TCR β); mm10, chr6: 41,520,001-41,570,000. $E\beta$ enhancer, DJC and Trbv31 regions are shown at the top. (b) ATAC signals and footprint calls around $E\beta$ are shown. Deletion of $E\beta$ enhancer from mouse genome blocks $\alpha\beta$ T cell development^{18,19}.

Supplementary Figure S10

a



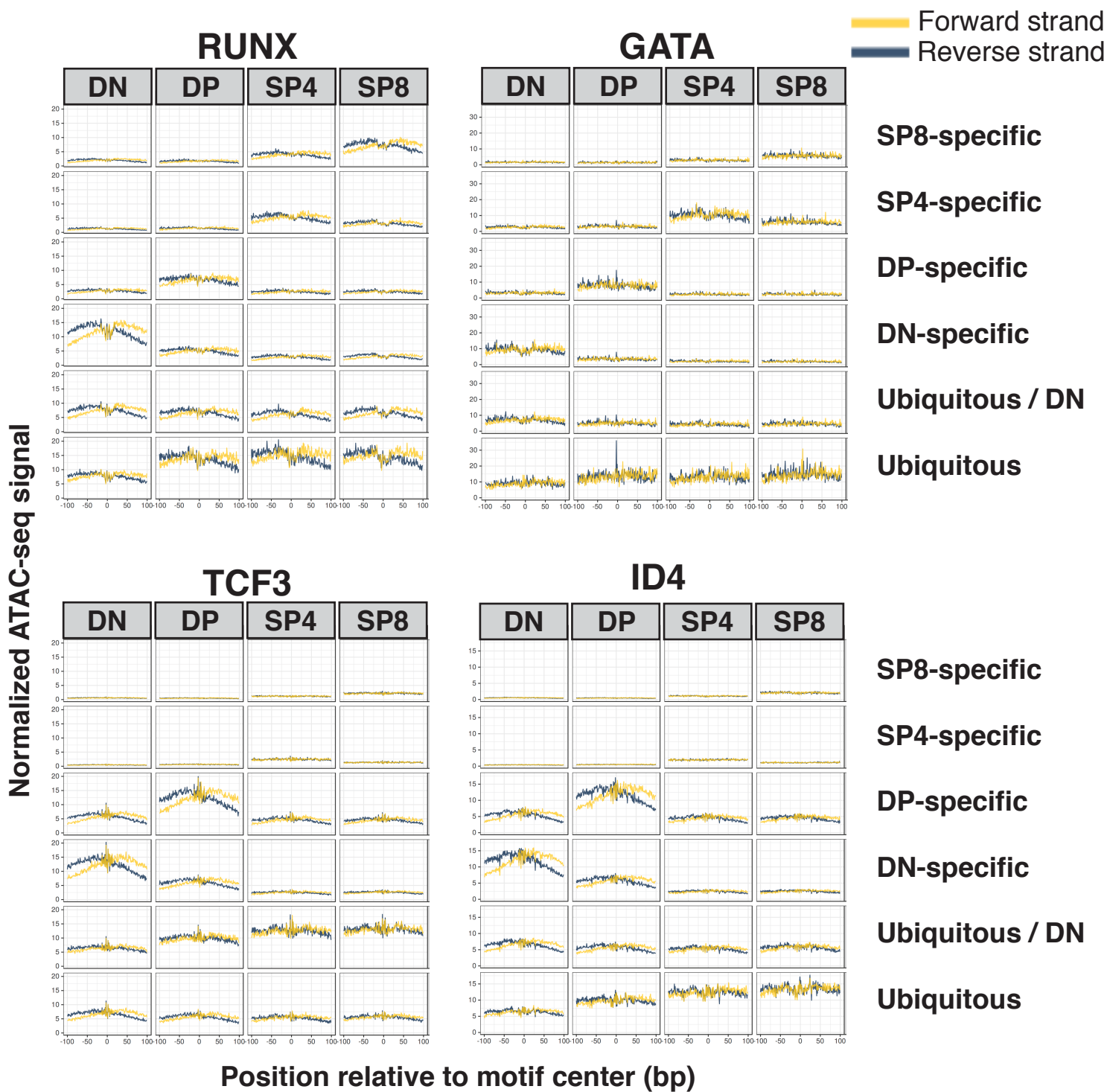
b



IKZF	MAF	FOXP3	TCF3	LMO2	NFATC1	RUNX	MGA
REL	E2F8		SMAD4	E2F	RUNX	PATZ1	TBX21
	FLI1		LMO2	ELK	TCF3		ELK
	ELK		PKNOX1	SOX	ETV		ETV
	PATZ1		ID	EGR	FOXO1		FLI1
	SP4		FOXP3	E2F8	ELK		
	ETV		CTCF	RREB1			
	TBX		ETV				
			FOXO1				
			ELK				
			RUNX				

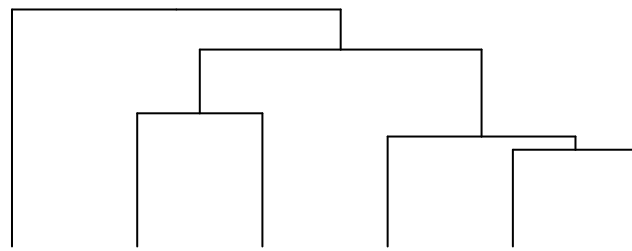
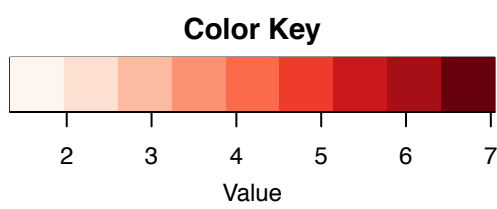
Supplementary Figure S11. Footprint occupancies across samples and clusters. Normalized occupancy signals (see Methods) at ± 100 bp of motif center for RUNX1, GATA, TCF3, and ID4. Horizontal facets correspond to the ATAC-seq samples, and vertical facets correspond to the k -means clusters.

Supplementary Figure S11



Supplementary Figure S12. HOMER motif enrichment analysis. HOMER known motifs that were called as significant in each of the clusters are plotted with their enrichment values in the color scale.

Supplementary Figure S12



DP-specific

SP8-specific

Ubiquitous

SP4-specific

Ubiquitous / DN

DN-specific

Supplementary References

1. Yue, F. *et al.* A comparative encyclopedia of DNA elements in the mouse genome. *Nature* **515**, 355-364 (2014).
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Supplementary Table 1:- ATAC-seq reads

Technical replicates	cell number used	Gender	Age	Mouse ID	The number of ATAC-seq pruned reads			
					DN	DP	SP4	SP8
exp1	50,000	Male	8w 5d old	Mouse300	34,746,770	133,561,133	46,752,311	34,153,821
exp2	100,000	Male	9w 1d old	Mouse302	31,185,833	37,269,073	30,944,280	31,185,833
exp1	50,000	Female	9w 2d old	Mouse4144	54,244,850	26,266,581	27,351,306	36,033,798
exp2	100,000	Female	9w 1d old	Mouse4220	53,352,406	30,633,272	24,178,547	35,557,147

Supplementary Table 2: GAT Chip-seq

motif	sample	annotation	segments	track	observed	expected	Ci95low	Ci95high	stddev	fold	l2fold	pvalue	qvalue	track_nsegm	track_size	track_density	annotation_r	annotation_s	annotation_c	overlap_nseg	overlap_size	overlap_den	percent_ove	percent_ove	percent_ove	percent_ove
GATA_known16	DN	centipede_predicted_bound	gata_chip-seq_peaks	GSM523221_DN-GATA3	11851	338.5490	206.0000	483.0000	85.0196	34.9051	5.1254	1.0000e-03	1.00E-03	932	539099	4.94E+00	6786	142995	1.31E+00	569	11851	1.09E-01	61.0515	2.1983	8.3849	8.2877
GATA_known16	DP	centipede_predicted_bound	gata_chip-seq_peaks	GSM523222_DP-GATA3	6425	107.3960	42.0000	189.0000	48.2010	59.2826	5.8895	1.0000e-03	1.00E-03	474	281259	2.58E+00	4229	89087	8.16E-01	308	6425	5.88E-02	64.9789	2.2844	7.283	7.2121
CTCF_known2	DP	centipede_predicted_bound	ctcf_chip-seq_peaks	ENCF714WDP_CTCF	79	3.48	0	13	4.9244	17.8571	4.1584	1.00E-03	1.00E-03	10535	3832475	3.51E+01	30	166	1.52E-03	17	79	7.23E-04	0.1614	0.0021	56.6667	47.5904

percent_overlap_size_annotation

Supplementary Table 3: GAT footprints

sample	cell	annotation	cluster	observed	expected	CS95high	idddv	fold	zscore	pvalue	value	track_name	track_size	track_density	annotation_size	annotation_density	overlap_name	overlap_size	overlap_density	percent_overlap_name	percent_overlap_size	percent_overlap_annotation	percent_overlap_size_annotation	
SP4	PCOU2_know14	cluster_4	DP	1861	7112.266	924	851	58.4265	1.8096	0.001263	685	10526	46.72	114	1601	7.1525	84	1361	6.0886	13.2726	12.9299	82.4951	83.0008	
DP	PCOU2_know14	cluster_4	DP	729	891.412	322	465	18.8292	1.8609	0.001429	591	49.77	61	5.4695	41.77	51	729	8.0066	12.4604	12.9299	84.4728	84.4728		
DP	KCF3_2	cluster_4	SP4	30745	16550.183	16073	16985	290.6251	1.8576	0.0010435	2368	35423	46.199	255	35881	4.0797	313	30745	4.0007	12.9299	82.7060	82.7060		
SP4	NUN2_4	cluster_1	SP8	3682	1887.891	1883	1122	74.0658	1.8576	0.0010909	2351	28410	47.054	442	4888	5.6889	442	3682	4.7085	15.4669	15.4669	84.8416	84.8416	
SP8	TCF3_2	cluster_1	SP8	26106	14160.159	13709	14557	247.5217	1.8494	0.0010435	2358	34065	45.448	288	34065	4.7692	276	26106	4.7692	15.4669	15.4669	84.8416	84.8416	
SP8	HD_1	cluster_1	SP8	21120	11854.589	11312	11874	180.8516	1.8325	0.0010435	2353	28120	45.899	280	28444	4.1557	280	21120	3.6429	12.9299	7.9181	82.6736	82.6736	
SP4	TCF4_1	cluster_1	SP4	22481	12265.171	11944	12574	187.8852	1.8305	0.0010435	2364	29977	45.732	249	3088	4.1448	249	22481	3.6429	12.9299	7.4848	82.0954	82.0954	
DP	TCF7_1	cluster_1	DP	71784	15780.248	15286	16234	261.8831	1.7226	0.0010435	2356	34948	45.726	282	35302	4.0168	282	71784	4.0168	14.9704	13.726	82.5074	82.5074	
DP	HEK2_1	cluster_2	DP	1193	652.43	566	740	50.001	1.8273	0.0014118	713	10262	51.563	105	1325	6.5676	90	1193	5.9944	12.824	11.6254	89.5238	89.5238	
DP	TCF3_1	cluster_1	DP	2321	7295.51	2079	7290	174.4038	1.814	0.0010435	1036	13287	47.014	1237	15081	8.1255	1237	2321	4.7061	13.1155	12.9972	83.4276	83.4276	
DP	PCOU2_1_5	cluster_1	DP	4155	2299.102	2130	2454	94.9825	1.8096	0.001429	591	49.77	61	5.4695	41.77	51	729	8.0066	12.4604	12.9299	84.4728	84.4728		
SP4	HD_1	cluster_4	SP4	23702	13448.075	12827	13465	186.677	1.8026	0.0010435	2026	27311	46.788	228	28330	4.4498	228	23702	4.0575	12.9299	8.7122	82.9185	82.9185	
SP4	TCF4_1	cluster_4	SP4	15466	8586.04	8291	8857	174.8941	1.8021	0.0010435	1037	13688	48.000	1441	17927	10.5466	1441	15466	5.4924	15.8009	15.8009	86.2664	86.2664	
DP	SOX3_4	cluster_2	DP	39136	2192.197	2022	1930	64.444	1.7951	0.001429	1805	25291	45.819	374	4096	5.1873	374	39136	5.1873	16.779	16.779	87.0479	87.0479	
DP	GATA_know16	cluster_2	DP	12722	7132.596	6782	7558	221.1013	1.7835	0.0010435	404	8433	48.865	72	15025	8.7059	72	12722	7.3715	15.8009	15.8009	82.2539	82.2539	
DP	SOX3_1	cluster_2	DP	6033	3174.804	3184	3576	102.8475	1.782	0.0010435	2204	36279	46.72	486	4844	6.07	486	6033	7.7651	17.261	16.5798	82.2469	82.2469	
DP	SOX1_3	cluster_2	DP	4778	3256.924	3060	3460	121.7581	1.78	0.0010435	2335	35523	47.207	533	7047	9.9448	533	4778	7.705	17.261	16.5798	82.2469	82.2469	
DP	SOX1_1	cluster_2	DP	3688	2072.051	1917	2233	95.8978	1.7795	0.0010435	1800	25424	51.007	428	48923	8.4923	428	3688	7.4077	15.6313	14.506	85.4939	85.4939	
DP	PCOU2_know16	cluster_2	DP	4777	2887.552	2516	2830	95.7964	1.7772	0.0010909	2099	29757	46.898	479	5089	6.0006	479	4777	8.1551	18.1155	17.261	79.5407	79.5407	
DP	SOX4_4	cluster_2	DP	4208	2368.15	2210	2543	102.355	1.7766	0.0010435	1791	25128	47.709	545	5945	7.8995	545	4208	7.8995	17.261	17.261	81.029	81.029	
DP	ARID3A_2	cluster_2	DP	1961	1104.156	995	1213	63.8366	1.7753	0.0010435	1897	15963	50.765	155	2265	7.0231	155	1961	6.2363	13.2726	12.847	85.5161	85.5161	
DP	FBX1_2	cluster_2	DP	3664	2725.042	2396	2974	98.6519	1.7753	0.0010435	2395	39962	48.409	450	5790	8.2003	450	3664	6.8839	14.9704	14.9704	82.7907	82.7907	
DP	FBX1_4	cluster_2	DP	3664	2078.483	1936	2219	83.3417	1.7667	0.0010435	2319	25946	48.177	409	4872	6.1173	409	3664	6.8839	14.9704	14.9704	82.7907	82.7907	
SP8	PNOX1_2	cluster_1	SP8	14489	8213.49	7943	8482	154.2804	1.764	0.0010435	9433	104420	49.524	549	16823	7.9634	549	14489	6.8386	14.1312	13.8492	84.9586	84.9586	
SP4	LMO2_1	cluster_1	SP4	38837	17482.68	17082	17852	227.5277	1.7628	0.0010435	9624	95160	47.228	567	17344	4.6881	567	38837	3.8683	14.1312	13.8492	81.296	81.296	
DP	PNOX_9	cluster_1	DP	5605	3187.09	2996	3383	121.315	1.7584	0.0010435	2184	34544	45.366	369	5605	7.1716	369	5605	7.1716	16.899	16.899	76.085	76.085	
SP8	PNOX2_2	cluster_1	SP8	15930	9061.401	8762	9331	174.4952	1.7579	0.0010435	11979	11988	46.728	7637	14859	6.547	7637	15930	6.547	13.518	13.518	84.5886	84.5886	
DP	TCF4_2	cluster_4	DP	2414	1880.406	1826	1910	58.7826	1.747	0.0010435	2028	26076	48.278	326	2814	5.6022	326	2414	4.4852	9.4583	9.299	81.0291	81.0291	
SP8	TCF4_2	cluster_4	SP8	22012	12613.17	12286	12988	185.0781	1.7451	0.0010435	2489	37143	47.812	314	35663	6.0271	314	22012	4.0966	12.9299	12.9299	82.7473	82.7473	
DP	SOX2_6	cluster_2	DP	4160	2387.764	2218	2574	107.8018	1.7419	0.0010435	1810	25439	47.137	347	5211	6.6273	347	4160	7.1316	16.3528	15.7048	78.088	78.088	
DP	SOX1_4	cluster_2	DP	511	2399.109	2134	2454	94.9825	1.7394	0.0010435	2152	30088	48.464	464	5163	6.0271	464	511	4160	7.1316	16.3528	15.7048	78.088	78.088
DP	HE_Know11	cluster_2	DP	9726	5043.499	5496	5843	144.5961	1.7361	0.0010435	2444	31143	47.937	314	35663	6.0271	314	9726	7.1316	16.3528	15.7048	78.088	78.088	
DP	TCF3_1	cluster_2	DP	25273	14545.43	14124	14987	252.6679	1.7375	0.0010435	9404	136288	48.648	556	16243	9.795	556	25273	9.0212	18.8399	18.8399	82.0041	82.0041	
DP	SOX1_1	cluster_2	DP	5129	3074.314	2891	3289	120.1108	1.7351	0.0010435	2452	31970	50.822	317	3975	5.6022	317	5129	5.6022	12.9299	12.9299	81.5564	81.5564	
SP4	MSP1_2	cluster_1	SP4	20265	11890.5	11577	12180	184.0024	1.7345	0.0010435	28191	35419	48.619	5001	28249	3.9549	5001	20265	3.9549	12.9299	12.9299	83.5665	83.5665	
DP	RUNX1_2	cluster_2	DP	8533	4816.204	4950	5200	153.8404	1.7342	0.0010435	3673	55648	48.329	548	10409	8.9798	548	8533	7.4044	15.6313	15.0104	80.435	80.435	
SP8	PNOX2_2	cluster_2	SP8	2991	1878.99	1899	879	170.9946	1.7335	0.0010435	9601	107462	50.126	1682	17076	5.885	1682	2991	5.885	13.518	12.676	81.296	81.296	
DP	SOX3_3	cluster_2	DP	6354	3866.783	3451	3844	118.878	1.7327	0.0010435	3759	38663	47.784	592	7959	8.6662	592	6354	8.6662	16.3528	15.7048	78.088	78.088	
DP	SOX2_4	cluster_2	DP	5740	3133.523	3097	3335	130.1173	1.7321	0.0010435	2321	35768	47.798	471	7079	9.4	471	5740	9.4	16.3528	15.7048	78.088	78.088	
DP	SOX1_4	cluster_2	DP	3425	1977.388	1859	2099	80.0002	1.7315	0.0010435	1629	21240	50.835	319	3951	5.6022	319	3425	5.6022	12.9299	12.9299	81.5564	81.5564	
SP8	PCOU2_1	cluster_1	SP8	20386	11775.49	11477	12072	182.9254	1.7311	0.0010435	24628	30658	47.912	289	3205	4.6552	289	20386	4.6552	13.518	13.518	81.029	81.029	
DP	GATA_know17	cluster_2	DP	6858	3963.314	3715	4224	152.5548	1.7292	0.0010435	2313	51515	48.405	554	8351	7.4469	554	6858	6.044	13.792	13.792	82.1219	82.1219	
DP	TCF3_2	cluster_2	DP	7207	4193.140	3996	4422	148.0917	1.7291	0.0010435	2800	40424	49.519	588	8022	9.6871	588	7207	9.6871	16.3528	15.7048	78.088	78.088	
DP	SOX1_1	cluster_2	DP	3851	2227.845	2069	2391	84.312	1.7282	0.0010435	1949	23799	48.783	304	3468	5.6022	304	3851	5.6022	12.9299	12.9299	81.5564	81.5564	
DP	RUNX1_1	cluster_2	DP	39388	23118.881	2282	23669	317.7723	1.7275	0.0010435														

SP8	SK01A_3	cluster_1	SP8	8311	5008.076	4806	5238	125.9374	1.6235	0.6991	0.01	0.0010909	3286	4529.0	55.339	698	9269	11.336	606	8311	9.944	18.732	17.9691	88.1395	87.7225	
SP8	SK02A_1	cluster_1	SP8	4156	5001.9	4930	5218	125.9374	1.6235	0.6991	0.01	0.0010909	3286	4529.0	55.339	698	9269	11.336	606	8311	9.944	18.732	17.9691	88.1395	87.7225	
DP	PND02_3	cluster_2	DP	2000	13633.374	13800	13961	197.2065	1.6205	0.6965	0.01	0.0010435	3600	16895	49.891	2518	27407	17.392	2002	2094	10.312	20.882	20.6689	79.5075	80.6144	
SP8	RUN02_1	cluster_1	SP8	11003	6846.538	6588	7123	164.4675	1.6201	0.6961	0.01	0.0010435	4117	64095	56.816	895	12459	11.044	788	11093	9.8333	18.546	17.3071	89.078	89.036	
DP	FO02_1	cluster_2	DP	2421	2024.65	2024	2020	25.5734	1.6204	0.6964	0.01	0.0010435	2024	2020	25.5734	1.6204	0.6964	0.01	0.0010435	2024	2020	25.5734	1.6204	0.6964	0.01	0.0010435
SP4	LM02_1	cluster_6	Common_2	197783	89675.417	97887	99532	491.8278	1.6193	0.6953	0.01	0.01	35649	895160	47.238	16748	28014	25.122	16516	159783	19.101	40.478	40.478	75.274	76.0336	
DP	PND01_2	cluster_2	DP	22225	14034.279	13649	14345	200.9202	1.6184	0.6946	0.01	0.0010435	9569	106189	50.266	2675	20148	14.261	2005	22715	10.753	21.801	21.9911	80.1009	81.0846	
DP	AT1A_1	cluster_2	DP	6926	4118.662	4118	4117	52.8862	1.6184	0.6946	0.01	0.0010435	4117	4117	52.8862	1.6184	0.6946	0.01	0.0010435	4117	4117	52.8862	1.6184	0.6946	0.01	0.0010435
SP8	TCF12_known5	cluster_1	SP8	3154	19737.234	19774	20190	278.2958	1.6173	0.6936	0.01	0.0010435	3023	43781	55.479	6112	36014	11.498	3067	3194	10.201	18.818	18.818	75.274	86.7263	
SP8	SK01_2	cluster_1	SP8	8154	5031.454	4823	5238	121.8	1.6165	0.6929	0.01	0.0010909	1021	45113	56.297	686	9166	11.498	596	8154	10.201	18.818	18.818	75.274	86.7263	
DP	FM02_1	cluster_2	DP	2934	1654.613	1654	1654	20.6644	1.6161	0.6924	0.01	0.0010435	1654	1654	20.6644	1.6161	0.6924	0.01	0.0010435	1654	1654	20.6644	1.6161	0.6924	0.01	0.0010435
SP8	MSP1_1	cluster_6	Common_2	108065	66890.102	66373	6780	336.8547	1.6156	0.692	0.01	0.01	28239	245858	48.512	15338	138355	28.336	10444	108065	20.527	42.463	42.463	77.132	80.2069	
SP8	SK01A_4	cluster_1	SP8	6070	3759.743	3581	3934	100.1546	1.6143	0.6909	0.01	0.0011429	2929	37027	56.692	529	6964	12.622	546	6070	11.072	20.794	20.794	87.1626	87.1626	
SP8	GATA_known17	cluster_1	SP8	9212	1733.664	1733	1734	21.9498	1.6143	0.6909	0.01	0.0010909	1734	1734	21.9498	1.6143	0.6909	0.01	0.0010909	1734	1734	21.9498	1.6143	0.6909	0.01	0.0010909
SP8	SK02_5	cluster_1	SP8	8597	5549.971	523	5756	129.8314	1.6138	0.6904	0.01	0.0010435	9178	50901	57.693	605	9906	11.228	582	8597	10.398	18.314	18.314	75.274	86.855	
DP	PND02_2	cluster_2	DP	2700	1676.86	16328	17152	266.0411	1.6127	0.6894	0.01	0.0010435	3836	159138	54.566	2057	31531	10.728	1736	2700	10.299	17.695	17.695	80.1009	80.1009	
DP	PND02_3	cluster_2	DP	26328	16193.673	15944	16464	224.3362	1.6121	0.6889	0.01	0.0010435	15443	122880	50.42	2996	32542	11.374	2393	26328	10.812	21.4444	21.4444	79.8732	80.8462	
SP8	TCF1_1	cluster_6	Common_2	48028	2992.873	2952	30317	314.5381	1.612	0.6889	0.01	0.01	10546	132387	47.014	6010	6749	22.639	3722	48028	17.056	36.613	36.613	74.2914	75.3392	
SP8	TCF12_known7	cluster_1	SP8	29459	18290.672	17984	18703	250.0749	1.6106	0.6876	0.01	0.0010435	11335	159258	55.926	2430	24340	13.836	2147	29459	10.345	18.622	18.622	88.3539	88.3539	
DP	FM01_1	cluster_2	DP	2088	1296.365	1221	1370	43.5862	1.6102	0.6872	0.01	0.0010435	3004	18138	35.492	417	2455	7.2022	353	2088	6.378	11.751	11.751	11.5117	18.6523	
SP8	TK1A_4	cluster_1	SP8	25075	15573.363	15151	16054	269.909	1.6101	0.6871	0.01	0.0010909	4504	163899	55.977	1543	28290	9.621	1343	25075	8.564	15.672	15.672	87.0382	88.6356	
SP8	GATA_known16	cluster_1	SP8	13969	8676.546	8305	9000	217.7867	1.6099	0.687	0.01	0.0010435	859	95037	55.067	829	16189	9.3751	696	13969	8.094	14.538	14.538	86.335	86.335	
DP	FM02_2	cluster_2	DP	22291	7642.217	7478	7827	114.7605	1.6076	0.6869	0.01	0.0010435	11799	82621	55.565	2026	25694	9.2999	1778	22291	8.916	14.9764	14.9764	87.591	87.591	
DP	SK01_3	cluster_2	DP	6897	4285.462	4078	4500	127.92	1.6093	0.6864	0.01	0.0010909	3002	45066	51.174	612	8556	6.897	486	6897	6.7157	10.882	10.882	79.418	80.6101	
SP8	TCF2_1	cluster_1	SP8	24496	15232.079	14923	15584	199.5628	1.6081	0.6854	0.01	0.0010435	11963	131925	55.793	2583	27660	11.889	2271	24496	10.352	18.9994	18.9994	88.5611	88.5611	
SP8	TCF1_2	cluster_6	Common_2	30750	65816.672	65121	66513	384.5768	1.6069	0.6843	0.01	0.01	29888	257334	47.872	14507	189006	20.674	11786	30750	19.674	41.3704	41.3704	76.0044	80.7483	
SP8	TCF1_1	cluster_1	SP8	10572	19135.746	18669	19553	266.3018	1.6054	0.683	0.01	0.0010435	9747	119764	56.06	3261	34617	12.357	1596	10572	10.966	20.041	20.041	88.084	88.084	
SP8	TCF4_1	cluster_1	SP8	45356	50012.9	49390	50593	357.2047	1.6056	0.6811	0.01	0.01	42368	45063	112339	16.979	15876	45356	15.343	10860	45356	15.343	10860	10860	40.41	40.41
SP8	SPB_2	cluster_1	SP8	10611	19746.635	19362	20170	248.0332	1.6017	0.6796	0.01	0.0010435	17412	225293	55.874	2806	35711	8.8666	2463	10611	7.8522	14.2489	14.2489	87.7562	88.6259	
SP8	TKB11_1	cluster_1	SP8	31663	6626.723	6348	6912	166.0297	1.6015	0.6794	0.01	0.0010435	3619	68942	53.926	3629	42512	9.892	3067	31663	8.3015	15.8486	15.8486	84.8526	84.8526	
SP8	TKB12_1	cluster_1	SP8	15319	5939.641	5932	6790	128.5889	1.6012	0.6792	0.01	0.0010435	17661	20462	52.761	1539	2214	14.705	1230	15319	12.6161	14.705	14.705	87.1373	87.1373	
SP8	SPC_1	cluster_1	SP8	2744	17682.858	16693	17520	246.5812	1.6006	0.6786	0.01	0.01	14811	193320	54.959	2474	31470	8.9373	2130	2744	7.4653	14.8128	14.8128	86.054	86.054	
SP8	FTV6_2	cluster_1	SP8	9150	5697.976	5404	5966	146.9022	1.6003	0.6783	0.01	0.0011429	9315	82058	22.229	2282	25678	6.9365	1020	9150	6.1129	11.3403	11.3403	85.2891	85.2891	
SP8	SK01_2	cluster_1	SP8	8928	5351	5351	5799	131.7463	1.5999	0.6783	0.01	0.0010435	8928	5351	5351	5799	131.7463	1.5999	0.6783	0.01	0.0010435	8928	5351	5351	5799	131.7463
SP8	SPC_2	cluster_1	SP8	29149	18220.975	17834	18603	230.3994	1.5997	0.6778	0.01	0.0010435	15787	205422	55.49	2615	33138	8.834	2276	29149	7.8586	14.6129	14.6129	87.063	87.063	
SP4	TCF2_1	cluster_6	Common_2	49215	30773.389	30219	31310	322.4384	1.5992	0.6774	0.01	0.01	46179	139888	46.468	3480	67499	22.639	3813	49215	16.256	35.9265	35.9265	76.1078	77.2022	
SP8	MSP1_known2	cluster_1	SP8	107002	66923.25	66030	67491	368.8681	1.5989	0.6772	0.01	0.01	10538	107002	159.326	15399	107002	159.326	15399	107002	159.326	15399	107002	159.326	15399	
SP4	TKB12_2	cluster_2	DP	15699	8813.6	8997	10022	127.1267	1.5987	0.6769	0.01	0.0010909	14978	104871	54.579	2637	31835	9.4475	2267	15699	8.1703	13.6958	13.6958	85.669	85.669	
DP	NEAT1_1	cluster_2	DP	11236	7084.897	6802	7375	177.0792	1.5985	0.6767	0.01	0.0010909	6435	87310	54.48	757	13426	8.3585	6127	11236	7.0511	13.6958	13.6958	84.3817	84.3817	
SP4	TCF3_1	cluster_1	SP4	45828	29244.08	28218	29059	318.9062	1.5982	0.6765	0.01	0.01	40878	45828	64.678	1479	24565	10.828	4178	45828	13.236	23.759	23.759	87.591	87.591	
SP8	TKB2_4	cluster_1	SP8	19827	11801.189	10960	11619	201.9465	1.596	0.674	0.01	0.0010909	7828	114668	56.477	1404	20314	10.005	1231	19827	8.8836	16.1379	16.1379	87.6781	87.6781	
SP8	SK07_4	cluster_1	SP8	7164	4494.822	4292	4710	131.228	1.5937	0.6724	0.01	0.0010909	2647	44272	56.797	553	8220	10.985	479	7164	9.3736	17.693	17.693	86.876	86.876	
SP8	SK08_1	cluster_1	SP8	4788	2924.08	2924	2925	214.8371	1.5936	0.6722	0.01	0.0010909	2925	2925	214.8371	1.5936	0.6722	0.01	0.0010909	2925	2925	214.8371	1.5936	0.6722	0.01	0.0010909
SP8	SK02_1	cluster_1	SP8	9388	5866.054	5651	6080	130.9927	1.5918	0.6706	0.01	0.0010909	6388	51655	57.162	1194	15946	10.809	686	9388	9.514	18.6009	18.6009	87.394	87.394	
SP8	SK06_6	cluster_1	SP8	11187	7029.052	6764	7315	166.8202	1.5915	0.6703	0.01	0.0010909	4230	63611	57.612	871	12456	11.281	773	11187	10.132	18.742	18.742	86.7486	86.7486	
DP	FM02_3	cluster_2	DP	65909	45084.003	45009	47066	3																		

SPA	TRK2_4	cluster_4	SPA	22012	14226.855	18398	14572	201.0973	1.5472	0.6296	0.001	0.0010909	7892	118588	58.407	1733	24847	12.238	1516	22012	10.841	19.2093	18.5617	87.4784	88.5902	
SPA	TRK0_1	cluster_1	SPA	69732	1474.652	10494	69732	141.5889	1.5464	0.6128	0.001	0.0010909	10494	10494	0.0000	0.0000	0.0000	0.0000	0.0000	10494	10.841	17.9996	18.5617	87.4784	88.5902	
SP8	SOZ_6	cluster_1	SP8	5465	3538.567	3376	3738	110.7973	1.5441	0.6288	0.001	0.0010435	3491	31108	57.681	424	6235	10.728	338	5465	10.133	18.4441	17.5678	86.4034	86.7075	
SP8	SOZ_2	cluster_2	DP	13177	20285.533	19841	20751	216.4518	1.5438	0.6265	0.001	0.0010435	14989	195470	52.699	3056	38712	10.477	2433	13177	8.4331	16.2319	16.1024	79.6139	80.8974	
SP8	SOZ_1	cluster_1	DP	2411	2736	15.4526	0.6243	0.6243	0.6243	0.6243	0.6243	0.001	0.0010435	2411	2411	0.0000	0.0000	0.0000	0.0000	2411	2.915	30.913	29.816	10.4133	10.4133	
DP	POU22_know1_1	cluster_2	DP	3726	21153.028	20619	21675	324.4012	1.5424	0.6251	0.001	0.0010435	4197	173116	10.438	2307	40418	10.438	1597	3726	10.438	19.4827	18.0823	78.3996	80.7545	
SP8	RUNE_1	cluster_1	SPA	7988	5180.081	4992	5387	122.3174	1.5424	0.6248	0.001	0.0010435	8134	34887	58.999	737	9083	10.438	7888	13.387	14.2997	13.387	86.7028	86.7028		
SP8	RUNE_2	cluster_2	SPA	2222	14539.688	14045	24586	234.9359	1.5424	0.6248	0.001	0.0010435	14028	234.9359	1.5424	0.6248	0.001	0.0010435	2222	2222	14539.688	14.045	15.6516	15.6516	85.9416	85.9416
SPA	RUNE_1	cluster_1	Common_2	113142	7903.053	72631	74217	502.4031	1.5407	0.6235	0.001	0.0010435	22871	322027	50.309	12701	147133	10.286	8163	113142	10.286	15.6503	15.3443	78.6075	78.6075	
SP8	SPOF_4	cluster_1	SPA	15376	7979.811	9653	10252	177.3884	1.5407	0.6235	0.001	0.0010435	17041	105904	58.627	1228	17521	10.286	10322	15376	10.286	15.7379	15.1411	86.4821	86.4821	
SP8	SPOF_3	cluster_1	SPA	2790	18170.266	18170	18170	181.7026	1.5407	0.6235	0.001	0.0010435	18170	18170	0.0000	0.0000	0.0000	0.0000	2790	2790	18170.266	18.170	19.0464	18.170	85.6461	85.6461
SP8	SPOF_3	cluster_1	SP8	5108	3316.053	3145	4482	102.8522	1.5402	0.6211	0.001	0.0010909	2960	27285	58.087	459	5801	10.286	400	5108	10.286	15.8904	15.8904	80.7209	80.7209	
SP8	SOX1_1	cluster_1	SP8	7001	4547.749	4345	4726	114.8906	1.5393	0.6233	0.001	0.0010435	2969	38740	61.39	625	7670	10.286	561	7001	10.286	11.0974	10.8083	87.146	87.146	
DP	TRK5_3	cluster_1	SPA	18802	12421.994	12421	12421	124.2114	1.5389	0.6219	0.001	0.0010435	12421	12421	0.0000	0.0000	0.0000	0.0000	18802	18802	12421.994	12.421	13.7722	13.7722	81.2777	81.2777
SP8	SOX_1	cluster_1	SP8	12635	8213.047	7989	14657	149.1029	1.5383	0.6214	0.001	0.0010435	6425	29956	57.773	1257	16434	10.286	1085	12635	10.286	16.3774	15.8819	86.1366	86.1366	
SPA	TRK1_2	cluster_4	SPA	15868	10155.775	7970	10651	204.2889	1.5382	0.6212	0.001	0.0010435	4909	89894	57.636	1207	14820	10.286	917	15868	10.286	17.6519	18.7808	87.5223	87.5223	
SP8	FOKO_4	cluster_1	SP8	4674	3093.514	2932	3200	87.4217	1.5376	0.6207	0.001	0.0010909	1903	24809	59.374	429	5251	10.286	369	4674	11.186	18.8999	18.8999	86.0016	86.0016	
SPA	PND01_1	cluster_4	SPA	28605	18779.166	18408	19199	229.7936	1.537	0.6202	0.001	0.0010435	11588	174615	56.273	2333	38808	10.905	1967	28605	10.905	19.3022	18.6537	84.312	84.312	
SPA	RUNE_2	cluster_4	Common_2	97406	63844.68	62880	64204	463.8918	1.5367	0.6199	0.001	0.0010435	18786	240409	50.895	9187	125839	10.286	7006	97406	10.286	17.2497	16.8522	76.2599	77.4053	
DP	SPB_2	cluster_2	DP	32685	21599.278	20844	21712	262.5566	1.5367	0.6198	0.001	0.0010435	16381	214653	53.087	1387	40326	10.001	32685	32685	21.5996	17.9257	17.9257	81.0519	81.0519	
SP8	EWRS1-FU1_1	cluster_1	SP8	96942	63111.267	62345	64055	562.396	1.536	0.6192	0.001	0.0010435	45443	904295	55.466	6241	119663	11.148	9066	96942	11.148	10.7022	10.7022	82.8826	82.8826	
SP8	SP1_2	cluster_1	SP8	16815	10647.751	10707	11201	153.1568	1.5359	0.6191	0.001	0.0010435	13891	139218	56.526	1996	19554	10.286	1688	16815	10.286	16.8713	12.2327	85.0701	85.0701	
SP8	TRK5_1	cluster_1	SPA	87859	12236.190	11869	12595	218.5451	1.5339	0.6172	0.001	0.0010909	6056	100292	57.866	1270	21299	10.286	18769	87859	10.286	19.2711	17.5731	85.1969	85.1969	
SP8	TRK20_5	cluster_1	SP8	29499	19236.16	18822	19580	230.5445	1.5341	0.6176	0.001	0.0010909	12908	197715	58.58	2375	38402	10.286	8701	29499	10.286	15.9386	15.9386	87.3407	87.3407	
SP8	SOX_1	cluster_1	SP8	29454	19198.406	18778	19681	269.7736	1.5342	0.6175	0.001	0.0010435	11786	151082	60.682	2122	32642	10.366	1903	29454	10.366	16.3463	15.4143	89.2589	89.2589	
SP8	SMAD_1	cluster_1	SP8	15518	10410.784	10194	10642	115.8495	1.5338	0.6162	0.001	0.0010435	10001	126448	54.82	2290	38768	10.286	3009	15518	10.286	17.3124	17.3124	85.1969	85.1969	
DP	EFZ_2	cluster_2	DP	6614	4316.138	4018	4625	124.3947	1.5323	0.6157	0.001	0.0010435	2804	47831	58.459	485	7560	9.2988	403	6614	9.2988	14.3773	13.8279	86.6667	86.6667	
DP	TRK5_3	cluster_2	DP	4156	4674.652	4473	4855	112.4566	1.5306	0.6141	0.001	0.0010435	2154	26979	62.609	628	7807	10.286	7156	4156	10.286	14.7154	14.7154	79.6139	79.6139	
DP	TRK5_3	cluster_2	DP	26851	16372.33	16861	17615	197.0247	1.5313	0.6135	0.001	0.0010435	14895	134213	54.181	384	31220	10.286	2968	26851	10.286	16.4517	16.4517	82.3652	82.3652	
DP	RUNE_1	cluster_2	Common_2	103671	67889.215	67215	68881	464.5389	1.5299	0.6134	0.001	0.0010435	21171	297445	46.5	10721	147133	10.286	7945	103671	10.286	16.226	15.2226	76.4823	76.4823	
SP8	POU22_know10	cluster_1	SP8	4271	6796	91.0008	1.5291	0.6121	0.6121	0.6121	0.6121	0.001	0.0010435	4271	4271	0.0000	0.0000	0.0000	0.0000	4271	4271	91.0008	91.0008	69.768	69.768	
SP8	SOX1_2	cluster_1	SP8	1700	9344.86	5141	5546	125.7123	1.5285	0.6121	0.001	0.0010909	3083	43248	63.367	918	11008	10.286	8170	1700	10.286	15.9913	15.9913	88.943	88.943	
DP	RBP1_2	cluster_2	DP	18320	9307.707	8867	9351	150.4297	1.5283	0.6119	0.001	0.0010909	9845	95962	56.223	1775	12792	10.286	1407	18320	10.286	14.9072	14.9072	79.2676	79.2676	
SPA	SOX1_4	cluster_4	SPA	2137	1564.999	1448	1468	47.8977	1.5281	0.6116	0.001	0.0010435	1448	1468	0.0000	0.0000	0.0000	0.0000	2137	2137	1564.999	1.565	17.1	16.4566	85.2399	85.2399
SPA	SOX1_4	cluster_4	SPA	7865	5146.118	4964	5345	114.506	1.5282	0.6119	0.001	0.0014129	2135	32728	59.319	2768	34229	10.286	588	7865	10.286	15.2482	15.2482	86.8622	86.8622	
SP8	MAF_know1	cluster_1	SP8	15969	10540.885	10115	10780	203.7762	1.528	0.6116	0.001	0.0010435	7632	130008	59.214	1102	17974	10.286	813	15969	10.286	12.2267	12.2267	87.3866	87.3866	
DP	MAF_1	cluster_2	DP	24237	16262.081	14664	16258	233.2417	1.5257	0.6095	0.001	0.0010435	14664	16258	0.0000	0.0000	0.0000	0.0000	24237	24237	16262.081	16.258	18.8009	18.8009	85.1969	85.1969
DP	PKB1_know1	cluster_2	DP	10464	6794.847	6599	7025	139.5685	1.5252	0.609	0.001	0.0010435	6170	70893	52.566	1236	13124	10.286	957	10464	10.286	15.0235	14.6606	86.7472	86.7472	
SP8	SOX_1	cluster_1	SP8	6486	4240.584	4038	4425	114.8612	1.5247	0.6085	0.001	0.0010435	2317	33889	61.352	481	7166	10.286	427	6486	10.286	17.0019	17.0019	89.2589	89.2589	
DP	PKB1_know1	cluster_2	DP	5643	24900.817	23511	24900	249.0017	1.5244	0.6082	0.001	0.0010435	23511	24900	0.0000	0.0000	0.0000	0.0000	5643	5643	24900.817	23.511	24.9009	24.9009	85.1969	85.1969
SPA	MGA_2	cluster_4	SPA	14455	9601.966	9297	9929	185.9318	1.5231	0.607	0.001	0.0010909	5162	87892	57.771	11126	107083	10.286	17463	14455	10.286	16.6397	16.6397	84.5192	84.5192	
SPA	SOX_3	cluster_4	SPA	10688	6893.683	6199	7142	157.3643	1.5231	0.6073	0.001	0.0010909	2900	46500	59.883	7391	11919	10.286	687	10688	10.286	13.506	12.5548	86.8521	86.8521	
SP8	SOX1_3	cluster_1	SP8	5517	3564.056	2649	2795	75.9461	1.5209	0.6046	0.001	0.0010909	2649	2795	0.0000	0.0000	0.0000	0.0000	5517	5517	3564.056	3.564	14.1797	14.1797	85.1969	85.1969
SP8	SOX1_3	cluster_1	SP8	8753	5640.738	5416	5854	137.0837	1.5197	0.6038	0.001	0.0010909	3130	52880	58.82	886	9659	10.286	800	8753	10.286	16.7794	16.7794	87.636	87.636	
SPA	HEXK_1	cluster_4	SPA	1785	1174.839	1102	1252	48.04	1.5189	0.603	0.001	0.0012632	1328	11959	60.289	239	1983									

DP	RRBL_1	cluster_2	DP	15516	77948729	77097	78886	5484424	14819	0.0675	0.001	0.001	45900	761292	60431	8626	133890	10616	7311	115516	91387	151908	151558	847954	862768	
SPB	PNC021_1	cluster_2	Common_2	37028	246317	246317	246317	0.001000435	0.001	0.001000435	0.001	0.001	4710	45367	52784	5022	37028	4710	37028	37028	37028	37028	37028	37028	37028	37028
SPB	CMS_1	cluster_1	SPB	7797	5364833	5084	5434	1072777	14809	0.0564	0.001	0.00100435	4352	46289	61603	638	8765	113	797	797	797	797	16499	88561	88561	
SPB	SMAD3_3	cluster_1	SPB	4793	2912364	2788	3058	811989	14808	0.0663	0.001	0.00100435	3767	39918	58906	570	5013	87061	570	486	486	486	12705	162316	860383	
SPB	SR02_2	cluster_1	SPB	5845	2257	2257	2257	1294053	14807	0.0562	0.001	0.00100435	765	765	765	765	765	765	765	765	765	765	134242	230375	88254	
DP	SP11_known1	cluster_2	DP	4266	28845529	28452	29277	2405959	14801	0.0567	0.001	0.001	3618	24810	52166	5865	5408	11855	4266	4266	4266	4266	175264	175264	770575	
SPB	TBL1_4	cluster_4	SPB	27534	18319452	18127	19103	2981796	14788	0.0644	0.001	0.00100909	2809	17054	58182	1814	36260	11145	1480	4490	2734	94038	166272	161628	844083	
SPB	SDX_9	cluster_4	SPB	1172	1831111	7651	4188	1502765	14776	0.0565	0.001	0.00100909	884	13207	4779	884	13207	4779	884	884	884	884	152162	152162	884413	
SPB	SDX1_5	cluster_4	SPB	8058	5455556	5269	5651	1212706	14769	0.0526	0.001	0.0011429	2416	33940	61564	691	3464	16623	599	8058	8058	8058	14686	24791	86686	
SPB	SMAD3_1	cluster_4	SPB	27766	18000569	18314	19086	1784716	14768	0.0525	0.001	0.00100435	2074	17916	58449	694	31413	11102	3407	27766	27766	27766	16461	161509	855685	
DP	SMF_known11	cluster_2	DP	2964	2008158	19615	20081	20081	14762	0.0521	0.001	0.00100435	2074	20081	273877	14762	20081	2074	2964	2964	2964	2964	1876	20652	182442	
SPB	SR02_2	cluster_4	SPB	8292	5619004	5381	5838	1836512	14756	0.0513	0.001	0.00100435	2099	33627	62352	627	9364	17363	541	8292	15742	24658	16754	24658	86239	
SPB	RUN1_1	cluster_6	Common_2	112564	76288716	75588	77024	4403892	14755	0.0612	0.001	0.00100435	23767	134786	52302	10721	147133	22886	8089	112564	112564	112564	132627	174501	765509	
DP	SR02_2	cluster_2	DP	17631	118276	118276	118276	7718821	14749	0.0506	0.001	0.00100435	4808	1991	21629	17631	118276	118276	17631	17631	17631	17631	17631	17631	17631	81139
DP	SR02_3	cluster_4	SPB	1204	8201379	7929	8485	1551684	14741	0.0599	0.001	0.00100909	3172	57193	92328	905	13558	14918	798	1204	1204	1204	23404	211459	88118	
DP	SR02_1	cluster_6	Common_2	4542	3081152	2948	3201	778505	1474	0.0597	0.001	0.001262	1174	10127	51504	700	6114	24408	511	4542	4542	4542	46426	74708	742885	
SPB	SDX1_5	cluster_4	SPB	32227	8297398	8050	8533	1515094	14735	0.0593	0.001	0.00100435	3884	51623	61408	606	13023	1036	14446	901	32227	32227	32227	15445	862961	
SPB	BP1T_1	cluster_4	SPB	30063	2040647	20038	20775	2319129	14731	0.0587	0.001	0.00100909	12812	172114	61355	2850	34033	12112	3320	30063	30063	30063	174669	875472	883449	
SPB	SDX_4	cluster_4	SPB	17199	11678045	11047	11964	1710212	14727	0.0585	0.001	0.00100909	5343	80252	62008	1138	19227	14871	1182	17199	13302	22124	121124	121124	883408	
SPB	SR02_2	cluster_4	SPB	9476	6154362	6225	6670	1314484	14726	0.0584	0.001	0.00100909	3199	44866	66261	809	10565	14865	710	9476	13226	22144	121207	121207	883765	
SPB	POU2F3_1	cluster_4	SPB	12069	8199484	7952	8481	1519884	14719	0.0576	0.001	0.00100435	3852	58181	62511	940	13469	14471	833	12069	12069	12069	21651	207439	88617	
SPB	GATA_known17	cluster_4	SPB	16086	10029349	10630	11203	1710211	14717	0.0575	0.001	0.00100435	4062	65192	61257	1185	18187	17089	1033	16086	15155	25408	246748	246748	87173	
SPB	SR02_2	cluster_4	SPB	8476	6154362	6225	6670	1314484	14726	0.0584	0.001	0.00100909	3199	44866	66261	809	10565	14865	710	8476	13226	22144	121207	121207	883765	
SPB	ELK4_2	cluster_1	SPB	3055	4103429	3869	4328	1323506	14706	0.0564	0.001	0.0011429	7800	64048	60342	1385	17453	2372	605	3055	2351	94915	94226	344256	345786	
SPB	SR02_1	cluster_4	SPB	19592	13385246	12958	13720	2245886	14692	0.0555	0.001	0.00100435	8640	147190	90329	1385	2454	92067	1179	19592	10302	136458	113307	136458	863736	
SPB	SR02_2	cluster_4	SPB	24654	16652403	16275	17034	2329263	14691	0.0549	0.001	0.00100435	20811	174705	57034	1919	29572	9564	24654	24654	24654	24654	14023	16293	87259	
SPB	NC2F_2	cluster_4	SPB	5849	3981131	3833	4147	923667	1469	0.0548	0.001	0.00100435	3898	36980	61725	694	1615	11041	612	5849	18328	15857	14689	88184	884203	
SPB	SDX_6	cluster_4	SPB	15275	10997874	10211	10778	162397	1469	0.0548	0.001	0.00100909	4528	88048	6143	1220	17382	11743	1053	15275	13743	23253	22474	23253	87873	
DP	SR02_2	cluster_2	DP	5808	3954656	3762	4158	122444	14688	0.0546	0.001	0.00100435	4037	45701	52784	5022	37028	4710	5808	5808	5808	5808	127376	127376	770575	
DP	CUX1_2	cluster_2	DP	726	491968	426	570	444914	14688	0.0546	0.001	0.001262	1238	6022	56339	511	888	83372	141	726	6183	125	120558	103922	88365	
SPB	SDX1_4	cluster_4	SPB	17980	12248132	11963	12566	1816677	14685	0.0543	0.001	0.00100909	5729	86325	61805	1406	20226	14481	1234	17980	12617	21102	16023	16023	87767	
DP	SR02_2	cluster_2	DP	3396	20099759	20097	20096	20096	14682	0.0542	0.001	0.00100435	4360	20096	20096	4360	20096	20096	4360	3396	3396	3396	10366	10366	88558	
DP	SP2_1	cluster_2	DP	23601	16074578	15758	16383	1877462	14682	0.054	0.001	0.00100435	3790	138253	54114	2183	2953	29884	117369	23601	9525	173169	10709	88069	88069	
SPB	ATF3_3	cluster_4	SPB	10069	688819	6625	7098	1344648	14681	0.054	0.001	0.00100909	3989	51008	59447	390	11616	13348	2980	10069	11837	180405	84962	84962	817026	
SPB	TV1_1	cluster_4	SPB	5088	34997	3417	3697	231121	14681	0.054	0.001	0.00100909	5088	34997	3417	5088	34997	3417	5088	5088	5088	5088	203014	203014	88676	
SPB	ARID3A_2	cluster_4	SPB	3267	2225117	2092	2365	831331	1468	0.0539	0.001	0.001333	1263	20439	64999	247	3631	11547	220	3267	1070	174188	159841	159841	89068	
SPB	SR02_1	cluster_1	SPB	6605	4502972	4297	4752	1393509	14667	0.0526	0.001	0.00100435	2053	61164	61418	332	7249	75161	238	6605	6884	11241	107988	107988	89759	
DP	SR02_2	cluster_2	Common_2	9733	787878	66647	67055	4298981	14666	0.0525	0.001	0.00100435	27633	61164	61418	332	7249	75161	238	9733	9733	9733	9733	9733	9733	89759
SPB	POU2F2_1	cluster_4	SPB	12711	11735676	11472	12003	1698908	14665	0.0524	0.001	0.00100909	5394	79524	62195	1344	1925	1184	1182	12711	12372	21625	21625	21625	87464	
SPB	SR02_2	cluster_4	SPB	13738	8442537	8146	8729	1649077	14661	0.052	0.001	0.00100435	5319	60392	62523	385	13977	1447	173	13738	13815	21632	20491	21632	87634	
DP	SR02_2	cluster_2	Common_2	4122	286142	27658	28569	2951272	14658	0.0517	0.001	0.00100435	3965	40287	40287	3965	40287	40287	3965	4122	4122	4122	4122	4122	4122	88208
DP	FXO2_1	cluster_2	DP	14266	29118943	28673	29547	2770136	14645	0.0504	0.001	0.00100435	2967	264888	57812	11072	3926	42646	8341	16309	9246	16996	79842	807506	807506	
DP	REL_1	cluster_2	DP	13727	9068206	8856	9283	1349318	14641	0.05	0.001	0.001	11960	101830	58683	1831	16059	89675	1494	13727	7414	13282	110384	110384	815948	
SPB	SDX1_1	cluster_4	SPB	40223	2881337	28813	28813	28813	1464	0.05	0.001	0.00100909	40223	28813	28813	40223	28813	28813	40223	40223	40223	40223	40223	40223	40223	829926
SPB	SDX1_1	cluster_4	SPB	7055	5486463	5241	5675	1245113	14632	0.0491	0.001	0.00100435	2714	35441	64162	2600	16948	10422	528	7055	14003	22488	15857	14682	89426	
SPB	NC2F_1	cluster_1	SPB	10129	6925792	6884	7142	134151	14624	0.0484	0.001	0.00100435	8739	105142	60209	1030	11778	76446	875	10129	15802	100216	93636	93636	855993	
DP	SR02_2	cluster_2	DP	6962	4694266	4696	4928	40929	14623	0.0483	0.001	0.00100435	6962	4696	4696	6962	4696	4696	6962	6962	6962	6962	6962	6962	6962	88558
SPB	SR02_1	cluster_4	SPB	2519	15400339	15144	15659	1909714	146																	

DP	EFZ7_1	cluster_2	DP	6190	4326.398	4140	4059	110.6998	1.4307	0.0167	0.00100435	9150	54006	59.789	579	7377	8.1669	492	6190	6.8238	11.8554	11.4617	82.8283	83.9094	
DP	EFZ9_1	cluster_5	DP	5647	2847.25	3840	3897	70.0461	1.4205	0.0166	0.00100435	9585	59562	63.227	579	6088	8.0986	568	5647	6.6127	10.9115	10.5273	82.5775	83.7175	
DN	EVN2_1	cluster_3	DN	11974	8376.215	8089	8669	180.6517	1.4295	0.0155	0.00100435	7018	70432	23.896	573	35299	11.976	1209	11974	10.625	17.2731	17.0008	83.8771	85.0008	
DP	FUNZ_4	cluster_6	Common_2	8144	5698.475	5502	5891	119.5281	1.4291	0.0151	0.00100435	7051	73810	47.054	1246	12216	24.142	1185	8144	14.0625	16.7671	16.4201	86.6667	87.5129	
SP4	FUNZ_2	cluster_2	Common_2	33366	22562.229	29086	29980	437.4683	1.4288	0.0163	0.00100435	9304	93044	407.4683	12062	12062	20.9601	8603	33366	20.9601	25.9561	25.9561	86.6667	87.5129	
SP4	FBL_2	cluster_4	SP4	8663	6964.526	5868	6277	126.2047	1.4284	0.0144	0.00100435	3037	43176	61.498	746	10083	16.362	1483	8663	20.9644	20.9644	20.9644	84.8525	85.9169	
SP4	FUNZ_2	cluster_4	SP4	16769	11739.821	11423	12009	171.2206	1.4283	0.0143	0.00100435	4374	71425	63.314	1297	19205	17.024	1119	16769	13.899	24.8423	24.4778	86.276	87.3158	
SP4	FUNZ_2	cluster_4	SP4	16526	11739.821	11423	12009	171.2206	1.4283	0.0143	0.00100435	4374	71425	63.314	1297	19205	17.024	1119	16526	13.899	24.8423	24.4778	86.276	87.3158	
SP4	FOU2F2know13	cluster_4	SP4	12041	8431.851	8151	8727	183.6593	1.4284	0.0154	0.00100435	1278	57442	64.703	704	18662	15.389	613	12041	15.563	22.4707	22.0662	87.0739	88.135	
SP4	TCZ7_2	cluster_4	SP4	39142	27410.158	27039	27789	231.1589	1.428	0.014	0.00100435	33256	146350	61.849	4118	44691	18.887	3579	39142	26.9991	26.9991	26.9991	87.5836	88.7158	
DP	GATA_know16	cluster_2	Common_2	3002	21862.127	20058	21591	316.7944	1.428	0.014	0.00100435	40518	205187	61.849	4118	44691	18.887	3579	3002	26.9991	26.9991	26.9991	87.5836	88.7158	
DP	MBL2_4	cluster_2	DP	1300	2170.8	2049	2295	75.4527	1.4278	0.0138	0.00100435	1563	21943	61.958	263	3526	9.956	228	1300	8.731	14.8773	14.1275	86.4802	87.9183	
SP8	HEK1_1	cluster_6	Common_2	5046	3514.026	3049	3659	75.5274	1.4277	0.0137	0.00100435	1100	11720	59.084	700	6114	30.823	568	5046	10.4587	13.4367	13.0546	86.1429	87.5836	
DP	FOU2F2_know12	cluster_2	DP	1011	6904.4	6904	7031	116.3793	1.4276	0.0137	0.00100435	4614	4614	61.243	11403	10114	10.046	1011	1011	10.046	10.046	10.046	86.1429	87.5836	
DP	ATB_3	cluster_6	Common_2	18732	11517.39	12854	13481	180.9267	1.4275	0.0135	0.00100435	3413	44607	51.027	2058	25990	29.865	1440	18732	42.776	42.776	42.776	86.1429	87.5836	
DP	FX1_4	cluster_6	Common_2	1099	7642.448	7435	7906	140.6701	1.4272	0.0132	0.00100435	2919	29548	48.177	1474	16039	39.788	988	1099	10.996	12.5482	12.5482	86.0225	86.1838	
SP4	MBF_know12	cluster_4	SP4	20072	14804.001	13700	14480	233.8202	1.4272	0.0131	0.00100435	7957	13675	61.531	1414	21564	10.497	20072	20072	15.1616	15.1616	15.1616	85.4314	86.6091	
SP4	PND02_3	cluster_6	Common_2	39616	27965.878	27355	28197	255.0377	1.4268	0.0128	0.00100435	10556	113004	42.844	4884	53142	36.403	3605	39616	35.072	35.072	35.072	84.7424	85.9169	
DP	CUZ_2	cluster_6	Common_2	1259	882.242	821	949	19.835	1.4266	0.0125	0.00100435	279	2511	51.763	207	1769	20.267	145	1259	15.949	15.949	15.949	84.7424	85.9169	
DP	SHAD_1	cluster_2	DP	1875	11322.44	13003	13493	149.6808	1.4264	0.0124	0.00100435	2462	12376	56.699	3011	32525	10.779	2398	1875	15.263	15.263	15.263	84.7424	85.9169	
SP8	HESS_1	cluster_6	Common_2	55683	39042.967	38653	39478	258.6345	1.4262	0.0122	0.00100435	9348	103156	59.163	6066	66167	37.949	5069	55683	51.936	51.936	51.936	84.5641	85.9169	
SP8	HESS_1	cluster_6	Common_2	7795	5465.469	5284	5658	116.3031	1.4261	0.0121	0.00100435	9348	103156	59.163	6066	66167	37.949	5069	7795	44.707	44.707	44.707	84.5641	85.9169	
DP	MBF_know10	cluster_2	DP	17889	12615.16	12331	12897	175.2677	1.4259	0.0119	0.00100435	10025	121099	60.099	1218	21443	10.542	1523	17889	18.875	18.875	18.875	84.642	85.9169	
SP4	ICZ7_3	cluster_4	SP4	10895	7640.541	7452	7817	117.9046	1.4259	0.0119	0.00100435	5825	58444	66.163	1388	11893	13.464	1132	10895	13.334	13.334	13.334	84.642	85.9169	
SP4	SPL_know14	cluster_4	SP4	37823	26551.383	26137	26991	253.7881	1.4246	0.0125	0.00100435	15328	202516	62.03	3409	42340	12.244	2961	37823	11.265	11.265	11.265	84.642	85.9169	
SP8	CUX1_8	cluster_4	SP8	1653	1160.227	1076	1240	22.5099	1.4244	0.0103	0.00100429	344	813	66.33	122	1843	13.823	109	1653	12.445	20.068	19.7564	80.0027	81.344	
SP4	SOX3_1	cluster_4	SP4	10834	7606.336	7356	7844	150.3873	1.4243	0.0102	0.00100435	3742	56229	63.32	877	12336	11.392	759	10834	12.2	12.2	12.2	87.8243	88.7158	
DP	FBP_2	cluster_2	Common_2	42487	29842.314	29405	30246	242.5614	1.4241	0.0101	0.00100435	9150	95856	63.227	579	6088	8.0986	568	42487	24.479	24.479	24.479	85.266	86.4397	
DP	FOU2F3_2	cluster_6	Common_2	9128	6409.823	6247	6574	120.6038	1.424	0.0099	0.00100435	2892	23182	50.653	1627	12784	27.933	1627	9128	19.545	39.794	39.794	74.743	75.4143	
DP	ATF_2	cluster_2	Common_2	18134	12777.849	12485	13084	172.6725	1.4238	0.0098	0.00100435	3457	41526	51.125	2144	25111	30.203	1528	18134	22.4	22.4	22.4	74.458	75.4143	
DP	MBF_know14	cluster_2	Common_2	10059	7099.229	6999	7598	157.1631	1.4237	0.0097	0.00100435	10489	10489	61.009	1421	14588	14.009	1049	10059	10.409	10.409	10.409	74.458	75.4143	
DP	RUN2_4	cluster_2	DP	14219	22780.929	22373	23232	261.861	1.4231	0.009	0.00100435	16438	21535	60.987	2540	27614	23.146	2649	14219	18.887	18.887	18.887	85.169	86.1838	
DP	FWAT1_3	cluster_6	Common_2	32488	10448.564	10208	10729	160.3812	1.4229	0.0089	0.00100435	3717	36045	53.14	1649	20119	9.1621	1173	32488	11.287	11.287	11.287	71.9003	72.9158	
SP4	TCOZ_2	cluster_4	SP4	16423	11454.1	11261	11961	152.1202	1.4228	0.0087	0.00100435	1474	18241	61.726	1678	21258	16.648	1833	16423	10.373	10.373	10.373	85.169	86.1838	
SP4	SOX11_1	cluster_4	SP4	6776	4782.955	4583	4968	111.956	1.4226	0.0085	0.00100435	2130	32640	65.561	555	6246	15.138	485	6776	10.259	10.259	10.259	85.8539	86.1838	
SP4	PND01_1	cluster_6	Common_2	4035	4923.149	48762	50086	394.8118	1.4224	0.0084	0.00100435	11388	174815	56.273	6051	88984	28.648	4725	4035	23.667	23.667	23.667	87.3874	88.7158	
DP	FBP_2	cluster_2	Common_2	42487	29842.314	29405	30246	242.5614	1.4241	0.0101	0.00100435	9150	95856	63.227	579	6088	8.0986	568	42487	24.479	24.479	24.479	85.266	86.4397	
DP	RUN2_5	cluster_6	Common_2	17208	12162.436	12014	12330	148.4555	1.4222	0.0082	0.00100435	17450	80525	60.5	11440	20182	39.805	8682	17208	34.135	34.135	34.135	84.7551	85.9169	
DP	FOU2F2_know12	cluster_6	Common_2	14718	10502.212	10085	10592	148.9518	1.422	0.0079	0.00100435	3757	37632	51.558	2708	20388	27.933	1494	14718	21.004	21.004	21.004	71.209	72.1895	
DP	MBF_know10	cluster_2	Common_2	10994	7615.614	7504	7892	115.551	1.4217	0.0075	0.00100435	10924	10924	60.945	1602	16024	10.024	1092	10994	10.024	10.024	10.024	84.642	85.9169	
SP8	HEB_2	cluster_4	SP8	37108	120288.94	118927	121549	777.6795	1.4216	0.0075	0.00100435	5115	157599	63.21	1071	19558	14.266	7406	37108	15.941	15.941	15.941	84.215	85.9169	
SP4	FOU2F2_know10	cluster_4	SP4	9700	6823.748	6663	6967	101.1489	1.4214	0.0074	0.00100435	5130	46258	63.552	1251	10899	14.974	1103	9700	13.326	21.001	20.969	88.1695	88.999	
SP4	SOX11_know11	cluster_4	SP4	14876	10162.883	10127	10568	120.3153	1.4212	0.0073	0.00100435	10568	10568	61.029	1723	24658	13.498	1408	14876	10.259	10.259	10.259	84.642	85.9169	
SP4	CKS_1	cluster_4	SP4	10117	7120.588	6945	7311	116.5184	1.4208	0.007	0.00100435	4490	49467	67.073	1068	11228	14.77	957	10117	13.909	15.452	15.452	89.6067	90.1051	
SP8	MBF_know10	cluster_2	SP8	13244	9321.763	8998	9644	159.6451	1.4207	0.0066	0.00100435	8781	149393	57.101	1009	14696	6.5484	835	13244	5.335	9.393	9.2002	76.6663	80.2861	
DP	TCF3_1	cluster_2	DP	1245	2942.67	2402	2457	64.1206	1.4206	0.0065	0.00100429	1245	1457	64.1206	1.4206	0.0065	0.00100429	1245	1245	1245	24.479	24.479	24.479	75.4143	76.458
DP	ICZ7_1	cluster_2	DP	14795	9008.257	8417	9283	159.1185	1.4203	0.0062	0.00100435	8537	10773	50.812	1477	15540	8.898	1088	14795	7.327</					

DP	RUN02_5	cluster_2	DP	40162	28655.087	28322	29189	326.9685	1.4016	0.847	0.001	0.001	17640	310902	61.324	2750	40946	9.284	3239	40162	73424	13.0209	12.9516	84.6909	85.5494
DP	HE1_1	cluster_1	Common_2	52075	56117.052	54464	5751	81.4836	1.2951	0.856	0.001	0.001	19040	18138	62.699	3148	45263	9.089	3198	52075	93028	14.5667	14.5667	79.6733	80.7029
SP8	HE1_1	cluster_1	Common_2	58042	42660.258	41611	42479	258.1073	1.4014	0.4888	0.001	0.001	19747	107540	60.702	6860	69165	39.239	7040	58042	92427	33.277	55.078	54.8094	84.2767
SP8	SP2_2	cluster_6	Common_2	91041	64885.444	64392	65634	391.4083	1.4009	0.8484	0.001	0.001	17422	23293	55.874	9156	117165	29.508	7802	91041	23.279	40.8421	76.113	77.7031	87.2782
SP8	SP2_2	cluster_6	Common_2	98251	68012	68116	7005	216.6033	1.4007	0.8482	0.001	0.001	16060	16060	43.828	6906	98130	916	7618	98251	68.016	76.819	98.098	98.098	100.0000
DN	EV7_1	cluster_4	SP4	7421	5305.822	51421	5077	101.9845	1.4006	0.4861	0.001	0.001	4567	95426	65.789	6609	59742	67.987	5977	7421	10.5722	12.5063	89.2377	89.8779	90.5677
DN	EV7_1	cluster_4	DN	5875	4186.871	41525	42273	237.9017	1.4005	0.4859	0.001	0.001	3087	27876	62.701	7658	68847	15.056	6536	5875	13.216	21.879	87.0538	87.7571	89.0072
DP	TKV_1	cluster_6	Common_2	45403	3297	3297	3668	111.0315	1.4004	0.8494	0.001	0.001	16800	16800	52.308	4206	4206	50.000	4088	45403	12.4202	12.4202	79.4865	80.0606	
SP8	TKV_1	cluster_6	Common_2	44842	31025.954	30427	31578	55.8734	1.4002	0.8456	0.001	0.001	15348	103982	56.334	3074	57031	28.984	3239	44842	22.483	22.483	50.1584	50.7645	77.9914
DP	TCFL1_5	cluster_6	Common_2	45870	37693.937	32181	33388	363.7821	1.4	0.8454	0.001	0.001	9726	149704	48.954	4940	67875	22.195	2917	45870	31.761	31.761	66.2955	67.5801	
SP4	TCFL1_5	cluster_6	Common_2	44945	37693.937	32181	33388	363.7821	1.4	0.8454	0.001	0.001	6786	116563	54.611	6786	110441	964	8107	44945	21.5447	21.5447	61.2107	62.4953	
DN	SOX1_1	cluster_3	DN	8599	6357.052	6140	6549	121.739	1.3998	0.4852	0.001	0.001	2138	40630	53.556	6151	6151	89.899	51.991	8599	16.133	21.9025	96.0796	97.2728	
DN	TCFL1_1	cluster_6	Common_2	41565	29858.679	29154	30344	354.1024	1.3997	0.8411	0.001	0.001	8046	130288	46.448	4005	61783	22.053	2638	41565	14.8177	15.0702	60.4979	62.7275	
SP8	MAF_known11	cluster_6	Common_2	72949	64668.858	62408	63748	375.2024	1.3997	0.8465	0.001	0.001	7290	109620	50.845	7290	109620	41.638	4568	72949	44.288	44.288	73.4837	74.5267	
DP	RUN02_5	cluster_6	Common_2	17226	123603.58	127104	123962	534.7543	1.3995	0.8489	0.001	0.001	17640	310902	61.324	11640	20182	39.805	8899	17226	34.029	55.712	85.4416	85.5645	
SP4	SMADA1_1	cluster_6	Common_2	17960	128158.17	127229	128084	532.9501	1.3994	0.8488	0.001	0.001	17640	310902	61.324	11640	20182	39.805	8899	17960	34.029	55.712	85.4416	85.5645	
SP4	SMADA1_1	cluster_6	Common_2	130041	9738.76	92309	93687	412.1444	1.3992	0.8466	0.001	0.001	21864	263200	58.247	15666	161340	32.951	10067	130041	26.518	26.518	79.4865	80.0606	
SP8	SMADA1_1	cluster_6	Common_2	180956	129235.35	128406	130143	553.5273	1.3992	0.8466	0.001	0.001	25193	367002	58.545	14994	22382	39.494	12851	180956	30.1677	30.1677	80.3489	81.3717	
DP	TCFL1_known5	cluster_6	Common_2	50817	36311.101	35782	36966	371.7261	1.3987	0.8401	0.001	0.001	9748	156401	49.931	4751	72608	26.044	3021	50817	13.0427	13.0427	67.7963	69.0373	
SP8	SP2_2	cluster_6	Common_2	76882	54976.304	54256	55869	424.465	1.3984	0.4858	0.001	0.001	14869	159470	52.699	8230	104958	28.297	5951	76882	20.737	20.737	77.2086	78.2503	
SP4	SP2_2	cluster_6	Common_2	62043	44722.848	43955	44805	264.3626	1.3982	0.4836	0.001	0.001	13891	139318	56.526	8044	10388	62.048	6263	62043	25.193	25.193	44.9788	47.6284	
SP4	SP2_2	cluster_6	SP4	25660	18556.705	17961	17909	242.401	1.3978	0.4832	0.001	0.001	2057	15318	63.966	2070	29469	16.348	1778	25660	13.2206	13.2206	85.8937	87.0746	
DP	SOX1_2	cluster_6	Common_2	16776	12025.599	11714	12318	286.9201	1.3973	0.4837	0.001	0.001	3867	42939	50.666	3822	42937	26.655	3231	16776	10.771	10.771	60.9694	62.5621	
DP	HMG1_2	cluster_6	Common_2	27198	19485.457	19138	19862	218.7572	1.3972	0.4826	0.001	0.001	4747	66572	54.16	4672	66572	40.053	2027	27198	12.144	12.144	40.855	42.7092	
DP	SOX3_3	cluster_6	Common_2	13080	9362.159	9045	9745	199.0218	1.3971	0.4824	0.001	0.001	2264	36279	46.72	1342	20452	26.338	837	13080	9.697	9.697	36.0339	37.5246	
DP	TCFL1_known17	cluster_6	Common_2	218430	84783.667	84019	85543	456.6676	1.3968	0.8422	0.001	0.001	2184	21445	55.804	8506	142533	40.275	6978	218430	33.664	33.664	55.9569	56.3660	
DN	CLX2_1	cluster_3	DN	1251	895.344	813	970	47.1841	1.3968	0.4821	0.001	0.001	444	7998	75.092	86	1315	12.346	80	1251	11.745	11.745	18.018	18.5444	
SP4	HF12_1	cluster_4	SP4	9921	7103.627	6956	7248	93.9575	1.3966	0.4819	0.001	0.001	19302	115812	58.735	2058	12154	16.664	1666	9921	5.0315	5.0315	86.9258	88.1274	
DP	HMG1_1	cluster_6	Common_2	5486	5611.062	5464	5751	81.4836	1.3951	0.4816	0.001	0.001	19040	18138	52.942	1786	1786	82.922	6131	5486	11.956	11.956	73.6627	75.029	
DP	SP1_known4	cluster_6	Common_2	68835	50474.699	49823	50750	363.9237	1.3953	0.4813	0.001	0.001	13368	174316	53.393	5415	94443	28.928	5415	68835	24.771	24.771	70.7947	73.8401	
SP8	WPAT1_3	cluster_6	Common_2	15866	11664.923	11093	11600	156.987	1.395	0.4811	0.001	0.001	3108	39257	57.876	1619	20119	29.661	1259	15866	23.391	23.391	41.7164	43.7663	
DP	HE1_1	cluster_6	Common_2	116	6024.612	6012	6027	662.566	1.3951	0.4811	0.001	0.001	116	6027	662.566	116	6027	662.566	116	116	116	60.242	60.242	88.3866	89.5679
DP	SP1_1	cluster_6	Common_2	70774	57070.571	50059	51329	376.3763	1.3951	0.4804	0.001	0.001	6102	101322	51.494	7805	99420	28.184	3458	70774	39.022	39.022	60.7736	62.116	
DP	SP4_1	cluster_6	Common_2	37136	26419.138	26131	27049	279.9778	1.3951	0.4803	0.001	0.001	1274	94414	52.37	867	11381	26.099	2582	37136	20.599	20.599	49.3468	50.8331	
SP8	MATF_known1	cluster_6	Common_2	2377	1704.978	1698	17386	202.3881	1.395	0.4801	0.001	0.001	2377	1704.978	1698	2377	1704.978	1698	2377	2377	1704.978	1698	1704.978	1698	1704.978
DP	HE1_1	cluster_6	Common_2	16485	12075.12	11697	12480	216.2845	1.395	0.4802	0.001	0.001	2800	44224	49.319	1877	25254	27.786	1843	16485	15.534	15.534	38.7443	40.8225	
DP	SOX3_3	cluster_6	Common_2	11502	3637.296	36263	37100	267.3311	1.3948	0.4801	0.001	0.001	8317	107703	58.812	5426	62354	36.222	4320	11502	10.605	10.605	49.7571	50.7886	
DP	GATA_known16	cluster_6	Common_2	8456	29439.569	28382	29448	327.1462	1.3948	0.4802	0.001	0.001	8456	29439.569	28382	8456	29439.569	28382	8456	8456	29.439	29.439	35.462	36.6203	
SP8	MAF_known1	cluster_6	Common_2	162486	116523.11	115164	117462	561.0737	1.3944	0.7977	0.001	0.001	25523	385561	56.181	14885	209608	30.543	10918	162486	23.676	23.676	42.7378	44.2427	
SP4	SP2_2	cluster_6	DN	8515	6106.296	5889	6277	111.427	1.3944	0.4796	0.001	0.001	2979	39191	71.088	880	1811	16.164	1461	8515	15.445	15.445	22.9585	24.7289	
SP8	HE1_1	cluster_6	Common_2	1725	1367.218	1367	14276	197.9509	1.3944	0.4796	0.001	0.001	1725	1367	14276	197.9509	1.3944	0.4796	1725	1367	1725	13.672	13.672	30.8731	32.1109
DP	SOX3_3	cluster_6	Common_2	11532	8270.434	7992	8575	172.3893	1.3943	0.4792	0.001	0.001	1177	16412	52.026	1187	14437	27.909	799	11532	19.548	19.548	37.6558	38.8785	
SP4	FOXO_5	cluster_6	Common_2	12383	8075.949	86403	87755	398.2127	1.394	0.4792	0.001	0.001	20387	276888	58.										

SP8	ELK_2	cluster_1	SP8	4142	2999	705	2830	3167	107,1288	1,3807	0.6654	0.001	0.001429	1570	51370	24,526	1388	12358	5,8774	462	4142	1,9669	8,0911	8,0318	33,2853	
DP	TRK1_2	cluster_2	Common_2	1554	1099	100	2830	2922	205,6711	1,3777	0.6616	0.001	0.001049	5454	20238	5,336	24774	28,506	1554	1099	100	1554	60,6008	60,6008	71,3007	
DP	TRK2_2	cluster_2	Common_2	4981	3620,42	35588	36812	362,7898	1,3805	0.6652	0.001	0.0010909	6647	123601	58,329	3636	4682	29,671	4981	3620,42	35588	4981	40,474	73,323	75,4066	
DP	SOX6_6	cluster_6	Common_2	20411	14590,079	14239	14993	217,5308	1,3805	0.6651	0.001	0.0010909	3625	54432	49,299	2124	30322	27,399	20411	14590,079	14239	20411	18,242	64,9247	66,5774	
SP8	WF_know11	cluster_1	SP8	211	14999	1	791	15596	159,5315	1,3803	0.665	0.001	0.001049	1643	20566	16,643	211	14999	1	211	14999	1	211	18,4565	18,4565	21,14999
DN	YCF7_1	cluster_3	DN	45170	37278,496	34229	33193	295,3274	1,3801	0.6648	0.001	0.0010435	4537	21763	71,046	45170	37278,496	34229	45170	37278,496	34229	45170	13,2005	29,705	94,836	
DP	KPZ2_2	cluster_2	Common_2	20552	14890,749	14229	14514	163,7216	1,3802	0.6648	0.001	0.0010909	1868	48914	55,261	20552	14890,749	14229	20552	14890,749	14229	20552	42,1027	72,9955	75,4544	
SP8	KW05_1	cluster_1	SP8	46223	33805,813	32023	32023	291,8596	1,3794	0.6644	0.001	0.0010909	6140	3984	16,427	46223	33805,813	32023	46223	33805,813	32023	46223	70,2727	70,2727	85,4626	
SP4	HMGAL_1	cluster_4	SP4	449	3223,574	3133	3310	32,602	1,3847	0.667	0.001	0.0010435	3745	22602	56,6657	449	3223,574	3133	449	3223,574	3133	449	11,112	19,6481	91,1084	
SP8	SMAD3_1	cluster_4	Common_2	6769	4957,833	48837	49720	272,809	1,3798	0.6645	0.001	0.0010435	19589	165967	66,427	10800	88038	29,932	6769	4957,833	48837	6769	47,1027	13,108	77,2019	
DP	SOX1_2	cluster_2	Common_2	1007	7073	1007	7073	7462	124,444	1,3796	0.6644	0.001	0.0010435	1007	7073	7073	1007	7073	1007	7073	1007	7073	1007	7073	1007	7073
DP	ATF1_knows	cluster_2	Common_2	74119	53720,023	53105	54361	347,8014	1,3797	0.6644	0.001	0.001	0.001	11364	158203	55,075	7138	98043	34,132	53105	54361	53105	47,2112	21,603	75,5885	
DP	WTF3_1	cluster_6	Common_2	18101	27616,97	27099	28159	306,7848	1,3796	0.6643	0.001	0.0010909	4105	87610	54,48	2889	52065	32,414	2027	38101	27,617	18101	44,6608	43,539	70,6518	
DP	SOX1_1	cluster_6	Common_2	1831	13179,407	12955	11626	210,7489	1,3795	0.6641	0.001	0.0010435	3040	46347	30,641	1831	13179,407	12955	1831	13179,407	12955	1831	20,3142	60,1619	69,2979	
SP4	FOP2_1	cluster_4	SP4	8002	5800,46	5593	6013	124,0891	1,3795	0.6641	0.001	0.0010909	3236	55175	67,435	551	8802	9,718	8002	5800,46	5593	8002	9,718	14,5029	89,4717	
SP4	FXP1_1	cluster_4	Common_2	48089	34861,134	34357	35382	309,1214	1,3794	0.6641	0.001	0.0010909	7191	128134	57,854	3984	61409	27,776	48089	34861,134	34357	48089	18,2283	76,5813	78,3964	
SP8	RUN2_5	cluster_5	SP8	32424	23955,813	23020	23020	291,8596	1,3794	0.664	0.001	0.001	18306	32095	63,474	23020	37091	7,4537	32424	23955,813	23020	32424	10,102	10,4556	85,0258	
DN	HES7_1	cluster_4	SP4	850	4490,22	4239	4684	122,22	1,3789	0.6636	0.001	0.0010435	9737	107540	60,702	850	4490,22	4239	850	4490,22	4239	850	8,4831	8,3225	83,124	
DN	SOX1_3	cluster_3	DN	12365	8969,508	8798	9179	137,5523	1,3785	0.6631	0.001	0.001	25007	53161	70,646	1009	13064	17,361	12365	8969,508	8798	12365	16,532	23,295	94,6494	
DP	SMAD1_1	cluster_2	DP	16573	12022,25	11867	12908	222,1158	1,3781	0.6627	0.001	0.0010435	12552	11399	63,434	2162	13122	10,678	16573	12022,25	11867	16573	9,2545	14,589	86,134	
DP	SMAD4_1	cluster_2	DP	55884	40548,136	39977	41741	364,8544	1,3785	0.663	0.001	0.001	20505	385038	137,865	55884	40548,136	39977	55884	40548,136	39977	55884	15,977	15,977	77,5625	
SP4	KPZ1_2	cluster_2	Common_2	74874	54319,49	53913	54740	259,0357	1,3784	0.663	0.001	0.0010435	20087	140663	59,864	11645	91533	33,399	9455	74874	54,319	74874	46,1602	45,6373	81,196	
DP	FRK1_know11	cluster_6	Common_2	31259	22682,317	22299	23028	222,1158	1,3781	0.6627	0.001	0.0010435	6370	76933	55,566	4029	45530	32,354	31259	22682,317	22299	31259	22,344	44,741	70,7372	
DP	SOX13_1	cluster_6	Common_2	9815	7121,681	6862	7363	156,0293	1,3781	0.6627	0.001	0.0010909	1890	25424	14,067	1044	14517	29,159	9815	7121,681	6862	9815	10,412	40,412	65,412	
SP8	RUN2_2	cluster_2	SP8	17578	12754,132	126506	128226	507,0289	1,3779	0.6624	0.001	0.001	18306	32095	63,474	11640	201282	39,2005	10037	17578	12,754	54,829	54,829	86,2285	87,1802	
SP8	LMO2_2	cluster_2	Common_2	12679	9206,165	9001	9373	107,4913	1,3772	0.6617	0.001	0.0010435	3834	29090	57,111	1588	16796	24,892	12679	9206,165	9001	12679	43,5854	74,372	78,3719	
SP8	SMAD_2	cluster_6	Common_2	88636	64861,865	63755	64956	364,5142	1,3771	0.6617	0.001	0.0010435	21409	221006	55,683	11532	116795	29,347	8701	88636	22,271	88636	39,9971	75,4509	75,8902	
DP	TRK1_1	cluster_1	Common_2	46024	29508,611	29755	29422	205,6711	1,3777	0.6616	0.001	0.0010909	5454	20238	5,336	24774	28,506	46024	29508,611	29755	46024	10,3661	20,617	72,7307		
SP8	RUN1_2	cluster_2	Common_2	6287	14650,56	14290	17003	221,3604	1,3769	0.6615	0.001	0.0010435	4117	64095	58,116	2803	30260	26,824	6287	14650,56	14290	6287	35,7703	73,6609	75,7667	
DN	FOXO_4	cluster_3	DN	1155	4492,991	4344	4681	86,3608	1,3765	0.661	0.001	0.0010909	2345	30568	17,157	521	6382	15,274	1155	4492,991	4344	1155	23,846	96,1612	96,1612	
DP	ATF1_2	cluster_2	Common_2	20121	14602,147	14110	14871	164,6342	1,3761	0.661	0.001	0.0010435	2144	22627	18,978	2144	22627	18,978	20121	14602,147	14110	20121	42,5139	42,5139	69,2979	
SP8	TRK_4	cluster_4	SP8	7740	5624,086	5422	5824	121,7298	1,3762	0.6605	0.001	0.0010435	6001	88600	61,768	724	9199	6,4131	7740	5624,086	5422	7740	13,999	84,3769	84,3769	
SP8	TRK_1	cluster_6	Common_2	6711	46024,034	4576	4688	327,8618	1,3766	0.6605	0.001	0.0010435	8336	154562	59,643	4773	78671	32,257	3787	6711	46,024	46,024	86,3608	80,1986	80,1986	
DP	SMAD_1	cluster_6	Common_2	41243	29449,5	28627	29368	313,9113	1,3757	0.6601	0.001	0.0010435	9440	102471	64,429	1841	20429	13,707	41243	29449,5	28627	41243	29,449	39,8442	69,2979	
DP	SM1_know11	cluster_6	Common_2	94823	68918,228	68297	69440	312,1772	1,3759	0.6603	0.001	0.001	34618	243410	52,166	18884	112280	28,326	11527	94823	68,918	94823	38,9241	71,2547	74,6826	
DP	SMAD_1	cluster_6	Common_2	55780	40548,136	40176	40936	244,7289	1,3756	0.66	0.001	0.0010435	15801	126448	57,942	8902	70228	32,18	7016	55780	40,548	55780	20,56	44,113	78,3137	
DP	SMAD_1	cluster_6	Common_2	55780	40548,136	40176	40936	244,7289	1,3756	0.66	0.001	0.0010435	15801	126448	57,942	8902	70228	32,18	7016	55780	40,548	55780	20,56	44,113	78,3137	
SP4	HMGAL_2	cluster_4	SP4	16133	11744,702	11457	12028	178,0075	1,3753	0.6598	0.001	0.0010435	15885	82554	67,162	13173	18136	14,755	12028	11744,702	11457	12028	10,538	19,5666	88,0554	
SP4	REL2_1	cluster_4	SP4	16321	11866,668	11628	12107	143,3591	1,3753	0.6598	0.001	0.0010435	15861	14508	63,571	2133	18854	10,467	16321	11866,668	11628	12107	14,532	16,2532	86,0759	
DN	SOX13_3	cluster_3	DN	12312	8972,112	8807	9224	133,9113	1,3752	0.6597	0.001	0.001	12312	8972,112	8807	9224	133,9113	1,3752	12312	8972,112	8807	9224	13,9128	16,2532	86,0759	
DN	SOX13_3	cluster_3	DN	1311	9751,979	9533	9990	147,7202	1,3752	0.6596	0.001	0.001	4022	57347	70,134	1064	14236	17,388	994	1311	9751,979	9533	1311	24,813	94,2171	
DP	ATF1_1	cluster_6	Common_2	15014	10917,578	10730	11091	110,5989	1,3752	0.6596	0.001	0.0010435	3671	27507	59,612	2634	38111	42,461	2151	15014	10,917	15014	16,816	58,5844	61,6629	
SP4	REL2_1	cluster_4	SP4	16024	29073,184	28968	29026	230,5464	1,3754	0.6596	0.001	0.0010435	20506	230,5464	230,5464	20506	230,5464	230,5464	16024	29073,184	28968	16024	60,2732	60,2732	84,0376	
SP8	ATF1_2	cluster_6	Common_2	6395	46043,489	43700	4495	397,9748	1,3747	0.6591	0.001	0.001	18874	119344	60,476	13826	76314	38,703	10592	6395	46,043	46,043	53,2958	82,8302	82,8302	
SP8	ARID3A_1	cluster_1	SP8	1932	1405,288	1334	1492	56,7007	1,3745	0.6589	0.001	0.001632	384	1458	67,591	183	2224	13,119	1932	1405,288	1334	1932	11,361	18,561	85,1648	
DP	TRK1_1	cluster_1	Common_2	46024	29508,611																					

SPR	F1U_2	cluster_1	SPR	7120	5231.358	5007	2459	130.3186	1.361	0.4466	0.001	0.001	6676	86936	61.84	671	8532	6.069	553	7310	5.0646	82.834	6.1899	80.443	80.2054	
DP	TRK1_1	cluster_2	Common_2	2082	2865.713	2459	130.3186	1.361	0.4466	0.001	0.001	0.001	6676	86936	61.84	671	8532	6.069	553	7310	5.0646	82.834	6.1899	80.443	80.2054	
DP	MAF_know11	cluster_6	Common_2	54734	42235.384	39627	40795	361.5486	1.3603	0.449	0.001	0.001	2084	125091	57.08	414	71119	32.243	3248	54734	24.615	48.807	45.378	75.288	76.9611	
DP	TCF3_1	cluster_7	DN	81833	60145.638	59329	61179	605.1461	1.3602	0.449	0.001	0.001	2084	290144	24.66	18450	245897	20.914	5885	81833	63.833	63.833	28.1974	70.312	71.9633	
DP	ARIDB1_1	cluster_6	Common_2	44224	33422.4	44224	44224	33422.4	1.36	0.4466	0.001	0.001	2084	116721	59.24	44224	44224	60.947	44224	44224	44224	44224	44224	44224	44224	44224
SPR	SDX1_1	cluster_6	Common_2	23377	17500.101	16876	17506	203.0266	1.3599	0.4455	0.001	0.001	4547	79533	58.39	2688	29918	29.492	1828	23377	23.004	40.203	37.4627	77.159	78.044	
SPR	SDX1_2	cluster_6	Common_2	30425	22373.109	22019	22722	216.5986	1.3599	0.4455	0.001	0.001	6625	79536	57.773	3385	39308	28.545	2580	30425	23.044	38.834	36.2465	76.2186	77.4015	
DP	RUN3_1	cluster_6	Common_2	116038	81217.1	116038	116038	81217.1	1.3598	0.4454	0.001	0.001	15867	116038	20.444	116038	116038	20.444	116038	116038	116038	116038	116038	116038	116038	116038
DP	POU2F2_know12	cluster_6	Common_2	16370	12039.272	7185	12280	211.5882	1.3597	0.4453	0.001	0.001	4381	48777	60.114	2383	23832	27.933	1664	16370	16.370	24.828	23.7088	76.3008	76.3008	
DP	FOXO1_1	cluster_6	Common_2	10469	7699.827	7460	7973	150.8866	1.3596	0.4452	0.001	0.001	2247	29326	51.149	1244	15377	26.82	82	10469	10.469	18.26	16.7601	65.6987	68.0922	
SPR	THW_1	cluster_6	Common_2	20718	151487	151487	151487	151487	1.3596	0.4452	0.001	0.001	151487	151487	1.3596	0.4452	0.001	0.001	151487	151487	151487	151487	151487	151487	151487	151487
SPR	SMAD3_3	cluster_6	Common_2	14088	10966.961	10744	11174	125.6293	1.3597	0.4452	0.001	0.001	3767	33918	58.906	2115	18720	32.511	1672	14088	14.088	25.877	24.9326	75.9544	75.9544	
SPR	GMEB2_2	cluster_6	SP4	4009	2948.796	2874	3077	76.2675	1.3594	0.443	0.001	0.001	2763	36777	66.35	360	4500	8.1185	314	4009	4.009	7.2247	7.1235	31.9008	30.5883	
SPR	GMEB2_1	cluster_6	Common_2	44658	34065.1	44658	44658	34065.1	1.3594	0.443	0.001	0.001	18286	34065	116.708	44658	44658	116.708	44658	44658	44658	44658	44658	44658	44658	
SP4	MRE12_2	cluster_6	SP4	3984	2911.203	2796	3060	85.3379	1.359	0.4426	0.001	0.001	2320	35130	66.23	325	4617	8.3275	274	3984	3.984	7.1803	7.1803	11.407	84.3077	
SP4	HES1_1	cluster_6	Common_2	200317	147450.108	146996	148237	512.3519	1.3587	0.4422	0.001	0.001	24677	349612	62.645	16910	236209	42.929	14216	200317	39.877	57.8027	58.0066	86.2888	86.2888	
DP	ARIDB1_know10	cluster_6	Common_2	59702	42947.507	43536	44987	267.1471	1.3585	0.442	0.001	0.001	10209	121099	60.099	6222	73661	36.559	4995	59702	29.829	49.8056	49.3002	82.2797	81.0411	
SP4	ARIDB1_4	cluster_6	Common_2	23806	17523.834	17219	17868	198.0901	1.3585	0.442	0.001	0.001	4639	60416	59.556	2386	29918	28.600	1860	23806	23.806	39.4035	39.4035	78.5708	78.5708	
SP4	SDX1_3	cluster_6	Common_2	15320	11277.289	11001	11549	163.486	1.3585	0.442	0.001	0.001	3151	44155	58.678	1464	19722	26.209	1116	15320	15.320	20.369	15.4733	74.696	76.7977	
SPR	MYB1_4	cluster_6	Common_2	37193	27881.099	27056	27606	200.2948	1.3583	0.4418	0.001	0.001	5176	67997	61.616	3479	44601	40.775	3875	37193	37.193	55.5448	55.5448	83.9305	83.9305	
SPR	TBK2_2	cluster_6	Common_2	35149	25877.993	25498	26738	214.7456	1.3582	0.4417	0.001	0.001	9097	90775	56.983	4675	45779	28.773	3549	35149	35.149	54.2063	54.2063	81.9144	81.9144	
DP	POU2F2_know15	cluster_6	Common_2	12879	9483.235	9265	9794	127.5992	1.358	0.4415	0.001	0.001	3075	33949	49.103	1524	16326	28.423	1182	12879	12.879	18.742	17.9383	78.8864	78.8864	
DP	SMAD3_2	cluster_6	Common_2	14136	10409.567	10221	10608	125.1651	1.3579	0.4414	0.001	0.001	3377	32203	55.927	2113	18720	32.511	1587	14136	14.136	24.55	24.4368	63.9965	75.5128	
DP	TRK1_2	cluster_6	Common_2	7603	5599.426	5417	5746	94.5268	1.3578	0.4412	0.001	0.001	3459	38700	71.853	745	7979	14.814	706	7603	7.603	14.116	15.066	65.2976	65.2976	
SP4	TBK2_2	cluster_6	Common_2	35977	26497.398	26146	26872	214.3644	1.3577	0.4412	0.001	0.001	6802	93136	58.465	4675	45779	28.775	3839	35977	35.977	55.283	55.283	83.9305	83.9305	
SPR	ERG_4	cluster_6	Common_2	48941	36047.07	35626	36459	244.9644	1.3577	0.4412	0.001	0.001	9301	88600	61.708	5444	54842	40.736	3776	48941	48.941	74.119	75.1216	88.0986	88.0986	
DP	TRK1_1	cluster_6	Common_2	37612	28652.713	28612	29352	308.6213	1.3577	0.4411	0.001	0.001	5122	29528	52.536	3141	34275	25.256	2018	37612	37.612	56.216	56.216	90.3239	90.3239	
DP	MYB11_MAF3_1	cluster_6	Common_2	6306	4618.622	43703	47196	471.2149	1.3575	0.441	0.001	0.001	8197	173116	53.265	4840	88615	37.265	4046	6306	6.306	17.1999	16.389	69.1016	72.1121	
DP	MYB11_2	cluster_6	Common_2	74818	55115.869	5352	5677	89.8264	1.3575	0.4409	0.001	0.001	1642	16095	60.713	844	9130	34.44	348	74818	74.818	28.246	47.058	46.5238	81.0513	
DP	FOXO1_1	cluster_6	Common_2	1668	12044	12044	12044	131.8005	1.3575	0.4409	0.001	0.001	1668	12044	131.8005	1.3575	0.4409	0.001	0.001	1668	12044	12044	12044	12044	12044	12044
SPR	SDX1_2	cluster_6	Common_2	16545	12189.835	11858	12474	174.7239	1.3572	0.4407	0.001	0.001	3221	45113	56.297	1640	22104	27.584	1212	16545	16.545	20.647	19.8463	76.4545	76.4545	
SPR	ERG_2	cluster_6	Common_2	4844	35711.181	35298	36133	245.898	1.3571	0.4405	0.001	0.001	6040	85640	61.21	4647	58454	40.401	3427	4844	4.844	54.7245	54.7245	82.296	82.296	
DP	FOXO1_2	cluster_6	Common_2	4913	3741.99	4902	5043	245.9919	1.3568	0.441	0.001	0.001	6084	6084	136.641	4913	4913	60.806	4913	4913	4913	4913	4913	4913	4913	4913
DP	FOXO1_1	cluster_6	Common_2	1824	11664.88	11445	11917	136.9707	1.3565	0.4399	0.001	0.001	4728	37858	53.335	2799	21955	30.911	1992	1824	1.824	22.293	21.983	41.7983	72.1047	
SP4	ATF3_3	cluster_6	Common_2	20728	15286.076	14960	15584	187.1786	1.356	0.4393	0.001	0.001	3989	51908	59.647	2058	22990	29.865	1615	20728	20.728	39.922	39.922	78.7338	78.7338	
SP4	MAF1_1	cluster_6	Common_2	34229	26512.17	26220	26938	224.4489	1.3559	0.4392	0.001	0.001	6028	96521	62.983	4299	35997	32.784	3097	34229	34.229	52.784	52.784	88.2054	88.2054	
DP	MAF1_2	cluster_6	Common_2	40085	33990.215	33905	34956	366.3535	1.3558	0.4392	0.001	0.001	5497	119384	52.184	3485	66578	37.280	2322	40085	40.085	10.1478	39.0449	68.3467	70.1681	
DP	PNDK2_2	cluster_6	Common_2	46009	29719.958	29105	30013	280.2764	1.3555	0.4389	0.001	0.001	11043	123880	50.42	5428	59074	24.729	3820	46009	46.009	16.476	33.0226	67.2439	67.2439	
DP	SDX1_4	cluster_6	Common_2	3405	24512.12	23202	24146	239.6813	1.3552	0.4387	0.001	0.001	29328	20241	239.6813	1.3552	0.4387	0.001	0.001	3405	3.405	20.242	19.824	68.0084	68.0084	
SP4	TRK1_4	cluster_6	Common_2	42820	31594.244	31071	32093	299.0732	1.3553	0.4386	0.001	0.001	7802	118588	58.407	3889	56074	27.125	3900	42820	42.820	56.261	56.261	76.1355	76.1355	
DP	FTV2_1	cluster_6	Common_2	68278	50882.488	49879	50989	305.0299	1.3552	0.4385	0.001	0.001	15356	154289	52.346	9620	95999	32.57	6785	68278	68.278	23.165	44.1447	44.1447	80.5301	
DP	PNDK2_1	cluster_6	Common_2	10474	7504.54	76274	79488	739.2202	1.3552	0.4385	0.001	0.001	15628	15628	15628	15628	15628	15628	15628	15628	15628	15628	15628	15628	15628	
DP	PNDK2_3	cluster_6	Common_2	3660	26335.17	26398	26795	240.4744	1.3548	0.4381	0.001	0.001	3600	106995	69.821	4884	53142	24.803	3444	3660	3.660	16.603	16.603	67.1409	67.1409	
SP4	POU2F2_know14	cluster_6	Common_2	5195	3834.811	3658	3990	96.9425	1.3546	0.4379	0.001	0.001	922	14165	62.953	474	6572	29.208	363	5195	5.195	39.709	36.649	76.5823	76.5823	
DP	SP1_2	cluster_6	Common_2	58424	45896	45896	45896	45896	1.3547	0.4379	0.001	0.001	45896	45896	45896	45896	45896	45896	45896	45896	45896	45896	45896	45896	45896	
DP	SP1_1	cluster_6	Common_2	59746	44124.545	43699	44555	27.0794	1.354	0.4373	0.001	0.001	16790	19258	56.134</											

SP8 MFPL1_1	cluster_6	Common_2	23926	21892625	217994	219588	559.2614	1.3426	0.425	0.001	0.001	28929	51931	65.795	25136	334415	42.384	22161	29956	13752	56.911	56.6188	87.4684	87.8926
SP8 MGR_L_1	cluster_6	Common_2	42102	21857482	10711	11376	129.4815	1.3374	0.434	0.001	0.001	3009	42564	1.000	4094	322	4.286	277	24332	35.352	54.204	57.1767	87.7879	87.9148
SP4 MGA_3	cluster_6	Common_2	35793	26661155	26195	27069	265.7484	1.3424	0.248	0.001	0.0010009	61304	86900	61.334	2881	4405	3.099	13.703	25731	35793	61.263	41.1887	79.5599	83.1263
SP4 FIS know17	cluster_4	SP4	24031	17907335	17448	18317	260.5311	1.3419	0.243	0.001	0.001	15024	220877	62.412	1710	29054	4.436	24031	11000	10.788	19.303	40.8788	80.947	82.7165
SP4 FCPL1_2	cluster_6	Common_2	432942	21924848	432942	32742	236.7547	1.3424	0.344	0.001	0.001	18574	52286	14.885	4764	13987	11.521	10.844	21899	432942	13.197	12.5204	68.2627	84.2037
DN HMBL_1	cluster_3	DN	18551	11886.718	11628	12131	156.7738	1.3419	0.242	0.001	0.00100435	15513	79302	57.662	11445	16685	11.2133	14048	108	210.142	95.102	56.6238	87.9128	
DP_SAM2_2	cluster_6	Common_2	81556	61976.03	61400	62543	355.8871	1.3417	0.241	0.001	0.00100435	20655	212873	53.488	11532	116795	29.347	8185	83156	20.495	39.672	70.9764	71.1983	
SP4 MPR_L_4	cluster_6	Common_2	4464	38083	4464	5448	125.7227	1.3417	0.242	0.001	0.00100435	5448	5778	125.7227	1.3417	0.242	799	6.044	594	71.637	6.044	14.1077	80.2176	83.5663
SP8 FLU1_4	cluster_3	SP8	7374	5485.806	5375	5695	121.6404	1.3417	0.244	0.001	0.001	1001	92567	61.122	680	7763	5.9824	574	7374	11.984	8.084	37.9661	81.384	84.0533
DN_PULF1 know5	cluster_6	Common_2	53990	40254.512	39714	40865	340.7187	1.3412	0.235	0.001	0.00100435	70823	137381	55.479	4751	13768	23.499	53990	17.236	31.994	13.0678	71.9848	78.3438	
DP_HES1_1	cluster_6	Common_2	5796	41956.72	42790	42966	245.4468	1.3304	0.232	0.001	0.00100435	42966	60066	60.066	42966	60.066	60.066	60.066	60.066	60.066	60.066	60.066	60.066	60.066
DN_SOK1_2	cluster_3	DN	13719	10234.323	9964	10462	144.4991	1.3405	0.227	0.001	0.00100435	4666	65357	73.59	1089	14386	16.21	1307	13719	15.647	22.035	20.909	84.5822	95.2973
SP8 EDP1_1	cluster_6	Common_2	29483	21955.584	21668	22329	195.2004	1.3404	0.227	0.001	0.00100435	4510	58879	64.962	2740	34386	38.289	29483	10.234	30.246	15.467	84.1971	95.2575	
SP4 MRO2_1	cluster_6	Common_2	12750	93306.17	9441	9701	120.3151	1.3399	0.221	0.001	0.00100435	9441	12750	120.3151	1.3399	0.221	64176	20.96	20.96	12750	16.82	20.96	78.4547	84.2142
SP8 WAT2_1	cluster_6	Common_2	15008	11201.161	11028	11372	101.6576	1.3398	0.221	0.001	0.00100435	5738	34548	61.908	3099	18285	32.761	2531	15008	26.889	43.441	81.736	82.8762	
SP8 ATF6_1	cluster_6	Common_2	15611	11667.736	11499	11900	104.4461	1.3397	0.221	0.001	0.00100435	3990	27320	68.816	2634	18311	22.41	15611	15.611	56.987	47.029	85.0797	85.364	
SP4 SPC_2	cluster_6	Common_2	84561	61322.388	62525	63676	315.4048	1.3396	0.218	0.001	0.00100435	17468	60189	60.189	8230	109586	78.297	84561	37.9662	37.9662	37.9662	37.9662	37.9662	37.9662
DN_SOK5_3	cluster_3	DN	9275	6923.973	6724	7115	121.4873	1.3395	0.217	0.001	0.0011429	2922	43910	68.1	968	7455	16.466	9275	15.748	12.275	21.128	95.9647	95.9675	
DP_KP2_2	cluster_6	Common_2	14423	10768.258	10525	10995	146.9319	1.3394	0.216	0.001	0.00100435	3111	33116	55.275	2039	19720	32.915	14423	24.078	43.975	23.455	73.1389	79.5286	
DN_EWSR1-F11_1	cluster_3	DN	228286	170500.809	169360	171730	734.9998	1.3389	0.211	0.001	0.00100435	56990	1127364	69.149	18331	254490	15.61	1933	228286	21.008	26.245	88.101	89.7033	91.4589
SP4 SPC_1	cluster_6	Common_2	78552	58980.487	58329	59506	364.8081	1.3389	0.211	0.001	0.001	16203	21420	60.042	7805	99240	28.184	6126	78552	42.304	37.8708	37.2964	76.4881	79.4559
SP8 POU2F2 know16	cluster_6	Common_2	16367	12224.107	11998	12465	135.5028	1.3388	0.211	0.001	0.00100435	4821	43899	59.761	2357	20734	28.485	1826	16367	22.486	38.0034	37.0262	77.8956	78.9538
SP8 POU2F2 know16	cluster_6	Common_2	15663	8713.244	8470	8970	162.1423	1.3385	0.206	0.001	0.00100909	2431	32048	54.51	1385	14045	33.613	15663	13.663	27.917	37.566	69.8117	71.0558	75.7864
SP8 CTCF know11	cluster_6	Common_2	94420	444667.201	442289	445974	1136.5557	1.3382	0.203	0.001	0.00100435	57414	1061210	61.215	1805	277160	41.946	32289	594270	34.28	56.288	55.9993	80.9552	81.7488
DN_CUX1_8	cluster_3	DN	75233	56544.726	55730	57126	287.8004	1.3382	0.203	0.001	0.00100909	12008	197715	58.58	6510	97846	59.909	75233	22.216	38.199	38.5929	76.0212	81.2566	
DN_CUX1_8	cluster_3	DN	1952	1489.25	1373	1549	56.467	1.3374	0.195	0.001	0.0011429	419	9564	75.019	15	2072	15.6	1952	14.892	15.21	19.505	84.4056	84.4056	
DN_PRR1_2	cluster_6	Common_2	54298	40607.631	40057	40812	1284.9029	1.3374	0.194	0.001	0.001	51000	1245776	62.597	30076	67822	23.582	54298	47.284	26.281	41.5871	78.408	80.0561	
SP8_SOK1_3	cluster_6	Common_2	14082	11657.852	10711	11376	129.4815	1.3374	0.194	0.001	0.00100435	1242	28262	57.718	2926	34368	20.338	14082	35.354	35.354	35.354	87.7243	87.7243	
DP_FOXO4_2	cluster_6	Common_2	30329	22598.127	22210	22928	220.5508	1.3372	0.192	0.001	0.00100435	5614	73565	57.429	3236	40377	31.554	30329	40.377	51.845	47.823	74.1459	74.8421	75.4824
DN_FOXP1_3	cluster_3	DN	35312	26448.818	26015	26854	251.5824	1.337	0.191	0.001	0.00100435	9966	159936	72.213	2449	37397	16.885	2276	35312	23.615	23.876	22.1101	90.7101	94.584
DN_RUNX2_1	cluster_6	Common_2	37771	29129.58	28951	29783	280.888	1.337	0.191	0.001	0.001	37771	29129.58	1.337	0.191	44808	818	37771	29129.58	9.322	9.322	9.322	81.6027	81.6027
SP4 MFPL1_1	cluster_6	Common_2	290638	217441.052	216552	218485	593.2425	1.3366	0.186	0.001	0.001	38836	515202	65.297	25336	334415	42.384	22161	29956	13.756	56.6238	56.6424	86.4422	95.2973
SP8_SOK4_1	cluster_6	Common_2	75153	53762.753	53038	54485	424.7022	1.3365	0.184	0.001	0.00100435	11716	191082	60.682	5980	90966	28.888	75153	23.304	24.901	36.8655	76.7083	78.9889	81.0679
DP_KP2_2	cluster_6	Common_2	84561	61322.388	62525	63676	315.4048	1.3364	0.183	0.001	0.00100435	17468	60189	60.189	8230	109586	78.297	84561	37.9662	37.9662	37.9662	37.9662	37.9662	37.9662
DN_MFPL1_1	cluster_6	Common_2	208818	156263.546	155275	157179	550.7815	1.3363	0.183	0.001	0.001	20223	349788	63.027	14620	248271	40.967	12189	208818	60.773	60.773	60.773	84.1089	84.1089
SP8_HIF1 know14	cluster_6	Common_2	17717	18110.497	87223	89052	557.2737	1.3362	0.182	0.001	0.001	17717	278824	63.239	7220	104489	32.558	17717	17.717	36.223	43.6003	67.2192	80.2362	82.7522
DN_GATA1 know16	cluster_6	Common_2	48579	31926.117	31442	49828	274.8577	1.3362	0.182	0.001	0.00100435	14307	21358	63.027	1386	17936	28.866	48579	31.927	31.927	31.927	67.2192	72.7307	75.4698
DN_TGFB1 know7	cluster_6	Common_2	49159	36798.888	36289	37277	303.5923	1.3359	0.178	0.001	0.00100435	61135	159528	55.926	4944	69005	23.495	49159	11.4424	30.875	30.875	72.084	75.4758	81.4748
DN_NFKB1 know16	cluster_3	DN	29177	21842.952	21462	22227	233.7555	1.3357	0.176	0.001	0.00100435	10376	128052	74.197	1533	30496	17.67	1453	29177	17.503	23.9318	22.7853	94.7815	94.7815
SP8_SOK10_9	cluster_6	Common_2	17596	11307.116	10793	11349	139.6716	1.3356	0.175	0.001	0.00100435	6175	87979	64.176	1979	17786	30.616	17596	16.313	16.313	16.313	81.285	81.285	81.285
SP8 FIS know13	cluster_6	Common_2	95563	73809.082	73795	74409	365.1854	1.3354	0.172	0.001	0.001	10012	161754	66.163	7079	11935	45.782	95563	20.824	20.824	36.6257	73.0267	74.4176	80.0412
DN_SOK1_1	cluster_6	Common_2	84561	61322.388	62525	63676	315.4048	1.3354	0.172	0.001	0.00100435	17468	60189	60.189	8230	109586	78.297	84561	37.9662	37.9662	37.9662	37.9662	37.9662	37.9662
DN_POU2F2 know13	cluster_3	DN	19777	9718.527	9443	9977	161.193	1.3351	0.171	0.001	0.00100909	3197	67338	75.85	702	13503	21.62	19777	14.612	19.714	34.878	94.8718	96.1046	
DN_MAFF1_1	cluster_3	DN	39909	29984.867	29483	30321	246.2009	1.335	0.168	0.001	0.001	11562	176219	70.456	3131	42825	17.122	39909	19.567	23.077	22.6274	93.1909	93.1909	
DN_SOK1_1	cluster_6	Common_2	14082	11657.852	10711	11376	129.4815	1.335	0.168	0.001	0.00100435	1242	28262	57.718	2926	34368	20.338	14082	35.354	35.354	35.354	87.7243	87.7243	
DP_FOXO4_1	cluster_6	Common_2	12810	9124.19	8899	9363	135.0298	1.3349	0.167	0.001	0.00100909	2848	35069	61.166	1244	15377	26.82	12810	21.244	36.0491	34.7115	77.839	79.2052	81.8783
DP_HES1_1	cluster_6	Common_2	118128	148436.357																				

SP8	PK81_4	cluster_6	Common_2	12117	9159.166	8879	9382	145.1015	1.3229	0.0037	0.001000909	2771	31106	57.793	1474	16039	29.779	4094	12117	22.497	39.803	38.959	74.218	75.5471	
SP8	PK84_2	cluster_6	Common_2	33814	5785.712	5890	5752	216.8648	1.3189	0.0093	0.0013333	1242	2011	63.24	9493	30.189	64.71	33814	20.612	51.736	51.736	51.736	51.736	51.736	
SP8	SOX21_3	cluster_6	Common_2	19118	14452.246	14144	14743	180.4497	1.3228	0.0036	0.001000909	1310	52880	58.82	1735	24817	28.111	3310	19118	17.309	36.298	36.298	75.5043	75.5043	
DN	SPIC_1	cluster_6	DN	54106	40066.011	40444	41340	286.0667	1.3227	0.0035	0.001000909	19310	25188	71.563	4562	57978	16.465	4320	54106	23.279	21.4717	21.4717	93.291	93.291	
SP8	SOX19_2	cluster_6	Common_2	20951	20051.287	20951	20951	246.8003	1.3227	0.0039	0.001000909	9000	10349	60.89	1000	10349	10.000	1000	20951	20.951	20.951	20.951	20.951	20.951	
DN	TCF7L1_1	cluster_6	Common_2	40563	34073.449	33581	34599	320.6744	1.3225	0.0033	0.001000909	9778	15704	56.06	4005	61781	21.053	3089	40563	26.838	26.837	26.837	71.6854	72.9399	
DN	POU2F2_known1	cluster_6	DN	14484	8682.469	8181	8884	106.531	1.3223	0.003	0.001000435	5446	54541	74.724	1240	11923	16.335	1191	14484	15.747	15.747	15.747	21.8093	21.8093	
DN	SOX12_2	cluster_6	Common_2	19124	14452.246	14144	14743	180.4497	1.3228	0.0036	0.001000909	1310	52880	58.82	1735	24817	28.111	3310	19124	17.309	36.298	36.298	75.5043	75.5043	
DP	FOPX3_1	cluster_6	Common_2	63379	47954.825	47503	48428	261.6264	1.3216	0.0023	0.001000909	10103	113712	63.225	6966	76024	42.27	5777	63379	35.239	36.071	36.071	55.7864	55.7864	
SP4	POU2F2_known15	cluster_6	Common_2	1322	1220.00413	1322	1322	146.9419	1.3216	0.0023	0.001000909	10103	113712	63.225	6966	76024	42.27	5777	1322	13.22	13.22	13.22	13.22	13.22	
SP8	HBP1_1	cluster_6	Common_2	24666	18644.414	18271	19035	229.2286	1.3215	0.0022	0.001000435	5130	63662	59.134	2217	32501	30.189	4040	24666	24.666	24.666	24.666	39.7974	39.7974	
DN	FOPX2_1	cluster_6	DN	6087	4006.449	4151	4702	59.713	1.3211	0.002	0.001000909	5499	32994	72.569	1087	14079	10.001	1040	6087	13.882	13.882	13.882	55.0945	55.0945	
DP	FTW1_2	cluster_6	DP	1388	1207.415	1388	1388	204.4866	1.3211	0.0021	0.001000909	9600	10417	60.89	1000	10417	10.000	1000	1388	13.88	13.88	13.88	13.88	13.88	
DN	FOXQ2_2	cluster_6	DN	1703	13006.882	12744	13228	152.1261	1.3211	0.0021	0.001000435	7348	96278	75.255	1440	17939	14.019	1181	1703	17.03	17.03	17.03	55.214	55.214	
SP4	CDKL9_9	cluster_4	SP4	2403	1819.007	1705	1937	71.8159	1.3209	0.0015	0.0012632	597	10009	60.627	170	2765	10.875	150	2403	16.23	16.23	16.23	86.2069	86.2069	
SP4	HFA_1	cluster_4	SP4	7187	5402.663	5253	5648	114.8464	1.3209	0.0015	0.001000435	3307	46509	65.576	591	8045	11.862	521	7187	10.97	10.97	10.97	15.7445	15.7445	
SP8	SOX6_6	cluster_6	Common_2	23399	16941.519	16538	17369	252.2872	1.3206	0.0011	0.001000909	4230	63611	2124	3032	35722	27.399	1538	23399	20.287	20.287	20.287	74.0414	74.0414	
SP8	STAT_known2	cluster_6	SP8	12855	9735.913	9436	10051	191.2425	1.3203	0.0009	0.001000909	8911	17852	67.814	782	10719	5.909	672	12855	4.7874	7.5412	7.5412	85.9335	85.9335	
DN	SOX16_2	cluster_6	DN	21799	16511.566	16226	16847	130.079	1.3202	0.0007	0.001000909	6860	103161	73.588	1603	23013	16.476	1512	21799	15.607	15.607	15.607	94.2747	94.2747	
SP4	ERG_2	cluster_6	Common_2	49707	37652.596	37307	38027	224.2382	1.3201	0.0007	0.001000909	7181	93517	64.636	4547	58454	40.401	3843	49707	34.556	35.1529	35.1529	84.5173	84.5173	
SP8	SOX3_1	cluster_6	Common_2	11662	8833.957	8739	9095	157.5298	1.3201	0.0006	0.001000909	1171	33889	61.352	1001	12050	17.246	762	11662	11.113	11.113	11.113	76.1239	76.1239	
SP4	HFA11_1	cluster_6	Common_2	42820	23502.574	23564	23989	216.3202	1.3201	0.0004	0.001000909	5359	103439	64.297	2869	32065	32.414	2302	42820	42.82	42.82	42.82	80.2022	80.2022	
DN	STAT_known3	cluster_4	SP4	14424	10828.263	10630	11235	185.2873	1.3199	0.0004	0.001000435	7269	145790	67.556	869	16480	6.856	1424	14424	6.866	6.856	6.856	87.4712	87.4712	
DP	STAT_known3	cluster_4	Common_2	7438	58588.839	58037	59305	358.811	1.3198	0.0004	0.001000435	6852	137400	63.695	4799	59340	43.27	3911	7438	35.852	35.852	35.852	82.8562	82.8562	
SP8	EPF2_known6	cluster_6	Common_2	457055	36409.094	363331	347590	484.7041	1.3194	0.0001	0.001000909	64724	792947	63.286	45866	551019	44.097	37900	457055	57.7055	57.7055	57.7055	82.5472	82.5472	
DP	SP100_1	cluster_6	Common_2	12522	10805.144	10569	11066	154.3738	1.3194	0.0003	0.001000435	1668	28373	65.605	1040	16856	15.786	863	12522	10.320	10.320	10.320	84.5515	84.5515	
DP	SP100_2	cluster_6	DP	1100	833.808	759	906	44.5813	1.3189	0.0033	0.001000909	864	11233	68.611	101	1262	2.006	86	1100	6.544	9.9337	9.9337	87.1632	87.1632	
SP8	ARID3A_2	cluster_6	Common_2	7611	5785.712	5890	5752	216.8648	1.3189	0.0093	0.0013333	1242	2011	63.24	9493	30.189	64.71	7611	41.61	41.61	41.61	75.5121	75.5121		
DN	FOPX3_2	cluster_6	Common_2	11111	8424.783	8276	8565	88.3813	1.3188	0.0092	0.001000909	4739	27424	62.407	3903	18622	29.961	1872	11111	24.038	24.038	24.038	81.2853	81.2853	
DN	PANQ2_3	cluster_6	DN	40887	30967.462	30635	31354	224.0355	1.3187	0.0091	0.001000435	13787	15314	71.649	2958	43496	20.301	1701	40887	36.015	36.015	36.015	93.5068	93.5068	
DN	TCF12_1	cluster_6	Common_2	22392	16445.462	16442	24472	245.52	1.3184	0.0091	0.001000909	22392	24472	584.2984	13187	13187	27197	44.742	43249	22392	22.392	22.392	22.392	89.6914	89.6914
DN	TK1_2	cluster_6	Common_2	25450	19104.34	18956	19678	216.8618	1.3183	0.0097	0.001000909	6983	115007	73.738	2682	31662	30.189	4040	25450	25.45	25.45	25.45	94.0461	94.0461	
DP	MTF1_3	cluster_6	Common_2	10117	60775.906	60215	61370	348.6862	1.3182	0.0096	0.001000909	13115	169509	62.611	7551	97546	36.03	6146	10117	47.262	47.262	47.262	81.3912	81.3912	
SP4	SOX3_3	cluster_6	Common_2	9286	5480.362	5253	5648	114.8464	1.3182	0.0015	0.001000435	3307	46509	65.576	591	8045	11.862	521	9286	10.97	10.97	10.97	15.7445	15.7445	
SP8	STAT_known3	cluster_6	Common_2	73567	62964.98	62942	60975	359.8691	1.3181	0.0095	0.001000435	7066	14184	63.668	4799	61940	43.27	4023	73567	56.946	56.946	56.946	84.1779	84.1779	
SP8	KLF13_1	cluster_6	Common_2	21353	161895.367	161038	162792	57.3079	1.3178	0.0092	0.001000909	1602	20083	65.363	14628	248271	44.967	12471	21353	36.845	36.845	36.845	85.9355	85.9355	
SP8	SOX6_2	cluster_6	Common_2	23963	16941.519	16538	17369	252.2872	1.3178	0.0092	0.001000909	4230	63611	2124	3032	35722	27.399	1538	23963	20.287	20.287	20.287	74.0414	74.0414	
SP4	ERG_4	cluster_6	Common_2	48987	37865.627	37406	38227	245.3149	1.3177	0.0091	0.001000909	7132	93169	64.953	4544	58432	40.736	3855	48987	34.556	35.1529	35.1529	84.5173	84.5173	
SP4	HBP1_2	cluster_6	Common_2	30694	23299.094	22865	23708	256.1314	1.3174	0.0097	0.001000435	2736	63041	65.364	1647	36240	37.575	1360	30694	31.825	31.825	31.825	82.5474	82.5474	
SP8	SOX1_2	cluster_6	Common_2	50028	36409.094	36333	34759	246.8003	1.3174	0.0096	0.001000909	50028	36409	36333	34759	246.8003	1.3174	0.0096	50028	50.028	50.028	50.028	80.2022	80.2022	
SP8	SOX5_1	cluster_6	Common_2	17642	13393.007	13129	13865	155.2898	1.3172	0.0095	0.001000435	4512	46829	61.603	2119	29242	29.338	1641	17642	21.208	21.208	21.208	77.3757	77.3757	
SP8	SOX14_4	cluster_6	Common_2	28401	22319.574	21932	22709	238.5867	1.3172	0.0095	0.001000909	4001	81262	58.18	2719	37817	28.027	1997	28401	23.05	23.05	23.05	76.1239	76.1239	
SP4	SOX1_3	cluster_6	Common_2	15732	11502.542	11502	11502	139.2682	1.3172	0.0095	0.001000909	11702	11502	139.2682	1.3172	0.0095	11702	11.502	11502	15.732	15.732	15.732	80.2022	80.2022	
SP4	REL_2	cluster_6	Common_2	54241	41182.458	40815	41588	256.0612	1.3171	0.0093	0.001000435	12661	114508	63.571	7335	65260	60.81	6048	54241	30.113	30.113	30.113	87.7887	87.7887	
DN	POU2F2_known10	cluster_6	DN	11195	8500.257	8327	8677	102.1651	1.3171	0.0092	0.001000435	10613	54229	74.503	1333	11620	15.964	1279	11195	11.95	11.95	11.95	96.3425	96.3425	
SP8	TCF12_known1	cluster_6	Common_2	14007	5785.712	5890	5752	216.8648	1.3168	0.0093	0.0013333	1242	2011	63.24	9493	30.189	64.71	14007	14.007	14.007	14.007	75.5121	75.5121		
SP4	SOX14_2	cluster_6	Common_2	14266	10833.59	10615	11070	141.7438	1.3168	0.0097	0.001000909	3491	38572												

DN	TRX1_1	cluster_3	DN	31536	24146762	23762	24552	241489	1.306	0.3812	0.001	0.00010909	7984	142057	75.135	1478	1688	1817	31536	16.68	234067	22.1995	98.433	95.455	
DP	FWB1_2	cluster_6	Common_2	16003	15851	1701651	13054	13051	0.0001	0.00010909	0.0001	0.00010909	2944	142057	75.135	1478	1688	1817	31536	16.68	234067	22.1995	98.433	95.455	
SP8	SP1_1	cluster_1	SP8	45971	44892187	47778	45020	3715847	1.3059	0.385	0.001	0.001	40464	724618	65.703	4880	6733	6321	45971	18.583	67971	62.885	63.022	63.778	
SP8	PAZ1_1	cluster_6	Common_2	53731	4208938	42785	42541	8105316	1.3055	0.3846	0.001	0.001	74077	97342	66.217	49543	64774	43772	53731	17.563	42447	53361	57.302	56.728	
SP8	SKC_1	cluster_6	Common_2	24576	24564	2103262	13054	13054	0.0001	0.00010909	0.0001	0.00010909	2944	142057	75.135	1478	1688	1817	31536	16.68	234067	22.1995	98.433	95.455	
SP8	NXB1_known1	cluster_6	Common_2	71740	4458813	44544	45426	2919121	1.3053	0.3844	0.001	0.001	21395	148970	65.352	4763	6456	3689	71740	17.283	44544	47862	48.864	48.803	
SP8	SP8_1	cluster_6	Common_2	12977	9941797	9718	10193	1441424	1.3053	0.3843	0.001	0.00010435	2609	38740	61.39	1367	1882	2625	12977	10.564	9941797	34792	37.497	37.249	
SP8	FWB2_1	cluster_6	Common_2	18727	18727	18727	18727	18727	0.0001	0.00010909	0.0001	0.00010909	2944	142057	75.135	1478	1688	1817	31536	16.68	234067	22.1995	98.433	95.455	
DP	FTV2_1	cluster_6	Common_2	41131	31662407	31192	32201	3007472	1.305	0.441	0.001	0.0011429	9480	87477	72.63	14847	13954	36088	4773	41131	11.162	47364	30.774	29.903	
SP4	SKX1_5	cluster_6	Common_2	11021	8437059	8192	8671	148786	1.305	0.3841	0.001	0.00011429	2416	33940	61.564	1568	1830	21422	11021	11.973	8437059	134851	12.4225	12.79705	
SP4	SKX1_6	cluster_6	Common_2	24827	24827	24827	24827	24827	0.0001	0.00010909	0.0001	0.00010909	2944	142057	75.135	1478	1688	1817	31536	16.68	234067	22.1995	98.433	95.455	
DN	ATF2_1	cluster_3	DN	12627	9937055	9721	10104	1157476	1.3049	0.3839	0.001	0.00010909	4063	59634	63.173	13733	16307	11733	12627	10.248	9937055	127443	14.444	14.209	
DP	FTF2_known4	cluster_6	Common_2	24662	1871872	18509	19757	2012602	1.3047	0.3817	0.001	0.001	4793	47016	60.976	1910	21448	40785	24662	13.933	1871872	53351	52.3694	52.3694	
SP8	SKC_6	cluster_6	Common_2	1008	1008	1008	1008	1008	0.0001	0.00010909	0.0001	0.00010909	2944	142057	75.135	1478	1688	1817	31536	16.68	234067	22.1995	98.433	95.455	
SP8	SP8_1	cluster_6	Common_2	44925	3599463	358797	36113	6823972	1.3044	0.3834	0.001	0.001	67562	823683	65.87	48586	551019	44097	39868	469525	37.575	57446	48.235	48.235	
SP4	POU2F1_1	cluster_6	Common_2	21265	1611878	16011	16439	1889843	1.3043	0.3813	0.001	0.00010435	3653	58181	62.51	1447	21285	22789	21265	13.841	1611878	37586	37.0896	37.0896	
SP4	FKO1_4	cluster_6	Common_2	9029	4933144	4731	7094	11453394	1.3041	0.3811	0.001	0.00010909	7012	26245	62.81	913	11306	718	9029	11.409	4933144	35469	34.4027	34.4027	
SP4	POU2F2_known12	cluster_6	Common_2	16636	12756272	12546	13001	1407098	1.3041	0.3811	0.001	0.00010435	4643	46514	63.727	2101	20988	27933	1695	16636	12.592	12756272	35.766	35.766	
SP4	RUN1_4	cluster_6	Common_2	9923	7609726	7421	7783	1115094	1.3039	0.3829	0.001	0.00010909	3165	32119	63.475	1246	12216	12146	991	9923	11.312	7609726	30.845	30.845	
DN	CUK2_2	cluster_3	DN	522	4061	359	432	224121	1.3039	0.3828	0.001	0.0013333	358	312	62.755	69	591	12183	60	522	10.761	15.769	15.769	15.769	
SP4	SKX1_3	cluster_6	Common_2	19644	15068052	14766	15401	1843279	1.3037	0.3826	0.001	0.00010909	3663	54981	62.433	1735	24817	28181	1348	19644	12.307	15068052	35.727	35.727	
SP8	SKX1_2	cluster_6	Common_2	18630	14292324	13953	14594	1978188	1.3035	0.3824	0.001	0.00010909	3666	51361	60.532	1822	24297	28235	1368	18630	11.956	14292324	37.139	37.139	
DP	FKS1_1	cluster_6	Common_2	426201	334672179	333718	335964	5972425	1.3034	0.3822	0.001	0.001	76044	740702	62.769	54917	52754	45263	426201	45.263	426201	37554	37.554	37.554	
SP8	FKS1_2	cluster_6	Common_2	29533	22370887	21999	22762	23714	1.3032	0.382	0.001	0.0011429	6710	51370	63.005	9086	43772	3830	29533	13.865	22370887	56374	56.374	56.374	
DP	SP8_1	cluster_6	DP	10547	80960833	80297	81584	3779166	1.3031	0.3819	0.001	0.001	53765	778558	62.307	11005	131511	10525	10547	10.527	80960833	137003	13.5503	13.5503	
DP	FWB2_1	cluster_6	Common_2	52260	70823211	70377	71299	2787656	1.3027	0.3815	0.001	0.001	17331	158428	62.545	12049	101617	44751	52260	38.17	70823211	92260	92.260	92.260	
DN	FWB1_MAG1_1	cluster_3	DN	5444	41825392	41255	42966	321607	1.3022	0.3809	0.001	0.00010435	11526	243206	74.83	4840	57401	17661	3664	5444	22.942	41825392	94.834	94.834	
SP8	SKX1_4	cluster_6	Common_2	13319	10093103	9854	10399	1503155	1.3022	0.3805	0.001	0.00010909	2660	37246	58.82	1317	17642	27861	965	13319	10.75	10093103	35.2763	35.2763	
SP4	FWB1_4	cluster_6	Common_2	12702	9759362	9506	9966	1371001	1.3024	0.3803	0.001	0.00010909	2660	32026	61.318	1639	29779	32706	12702	11.272	9759362	30.329	30.329		
SP4	SKS_6	cluster_6	Common_2	20583	181201071	17737	18463	2085004	1.3015	0.3801	0.001	0.00010909	4238	68048	61.43	2124	30522	27399	1828	20583	11.591	181201071	34.664	34.664	
DP	EGR1_1	cluster_6	Common_2	20441	15644134	156309	157625	4247678	1.3014	0.38	0.001	0.001	29111	33471	66.296	21237	238147	47161	1618	20441	10.447	15644134	61.0092	61.0092	
DP	TCF1_known1	cluster_6	Common_2	426081	426081	426081	426081	426081	0.0001	0.00010909	0.0001	0.00010909	2944	142057	75.135	1478	1688	1817	31536	16.68	234067	22.1995	98.433	95.455	
SP4	FWB1_1	cluster_6	Common_2	50304	386800144	385767	380000	7220958	1.3012	0.3788	0.001	0.001	76286	858580	66.244	54190	59712	45377	45524	50304	38.254	386800144	58.622	58.622	
SP4	FWB2_1	cluster_6	Common_2	17113	12028507	12047	13477	159307	1.3007	0.3793	0.001	0.00010435	2120	31330	62.23	1404	20538	38135	17113	11.311	12028507	49707	48.9069	48.9069	
SP4	FWB2_2	cluster_6	Common_2	45736	45736	45736	45736	45736	0.0001	0.00010909	0.0001	0.00010909	2944	142057	75.135	1478	1688	1817	31536	16.68	234067	22.1995	98.433	95.455	
SP8	FWB1_known1	cluster_6	Common_2	46627	3566353	35421	36260	269242	1.3007	0.3792	0.001	0.001	7192	114884	66.248	3962	55647	31587	3274	46627	11.802	3566353	40.5274	40.5274	
SP8	SKX1_4	cluster_6	Common_2	8827	755627	7342	7804	1397745	1.3005	0.379	0.001	0.0011429	2193	30727	55.692	1053	13999	25373	724	8827	17.811	755627	31.826	31.826	
SP4	HMG1_2	cluster_6	Common_2	6498	6498	6498	6498	6498	0.0001	0.00010909	0.0001	0.00010909	2944	142057	75.135	1478	1688	1817	31536	16.68	234067	22.1995	98.433	95.455	
DN	POU2F2_known5	cluster_3	DN	920	7111384	6929	7299	904428	1.3003	0.3788	0.001	0.00010435	4911	42112	72.23	905	9687	16865	920	920	16.121	7111384	21.492	21.492	
DN	CUK1_1	cluster_4	SP4	1452	1122585	1099	1194	514678	1.3001	0.3787	0.001	0.0012632	439	7949	74.631	110	1680	11573	110	1452	13.303	1122585	18.2664	18.2664	
DP	FWB2_known2	cluster_6	Common_2	47629	47629	47629	47629	47629	0.0001	0.00010909	0.0001	0.00010909	2944	142057	75.135	1478	1688	1817	31536	16.68	234067	22.1995	98.433	95.455	
SP4	PAZ1_1	cluster_6	SP4	74054	56966555	56295	57561	5370021	1.2999	0.3784	0.001	0.001	11831	944599	64.129	7074	61288	57076	74054	10.876	56966555	80376	80.376	80.376	
SP4	TCF1F1_known5	cluster_6	Common_2	57409	44178101	43512	44750	3513307	1.2995	0.3779	0.001	0.00010435	11860	190547	60.832	4751	96208	23499	3634	57409	18.328	44178101	30.548	30.548	
DN	HMG1_1	cluster_6	Common_2	742	742	742	742	742	0.0001	0.00013333	0.0001	0.00013333	742	742	74.2	74	74	74	742	74	74	13.738	74	74	74
SP4	ATF1_1	cluster_4	SP4	2968	2385403	2197	2374	354	1.2985	0.3785	0.001	0.00010435	3515	27415	65.182	5372	5224	2982	2968	10.968	2385403	10.822	10.968	10.968	
SP8	SKX1_2	cluster_6	Common_2	23872	1884741	18040	18786	2208103	1.2983	0.3766	0.001	0.00010909	4906	67750	58.889	2240	32027	27886	1633	23872	11.233	1884741	36.206	36.206	
SP4	FWB1_2	cluster_6	Common_2	71502	5778362	5692	5966	2853741	1.2984	0.3762	0.001	0.00010909	4564	32026	61.318	1602	20790	20790	71502	16.68	5778362	4236917	42.369	42.369	
SP4	FWB1_known14	cluster_6	Common_2	93059	92662594	91888	93354	4628207	1.2978	0.3763	0.001	0.001	19968	293131	66.532										

SP4_HF_known11	cluster_6	Common_2	47237	37662.857	36608	37572	287.589	1.2853	0.3621	0.001	0.001	51396	119381	67.85	3982	55647	31.857	3349	47637	27.04	408814	39.9703	84.528	
DN_KOL_1	cluster_1	Common_1_DN	6762	6951	8798	6860	118.547	1.2851	0.3621	0.001	0.001	6096	13956	66.56	591	40626	31.857	3349	47637	27.04	408814	39.9703	84.528	
DN_ARHD_3	cluster_3	DN	5312	4134.269	4041	6279	47.0814	1.2848	0.3615	0.001	0.0013333	1980	25566	81.304	379	5462	12.977	324	5832	16.693	22.977	20.776	56.784	
DN_ABRD_1	cluster_1	DN	2883	2243.923	2148	2335	59.1588	1.2847	0.3614	0.001	0.0012632	590	13800	80.227	232	2962	17.473	224	2832	17.007	22.306	21.985	96.517	
DP_CFCI_known1	cluster_1	Common_1	14140	100023	114114	111263	607.5111	1.2847	0.3614	0.001	0.0012632	2047	45000	80.001	3590	20477	38.001	14140	100023	60.766	156.266	156.266	90.882	
SP8_UCX_9	cluster_6	Common_2	4557	3079.836	2446	3209	83.972	1.2847	0.3614	0.001	0.0012632	327	5969	67.391	296	4397	23.969	296	3957	26.76	41.211	39.693	80.7432	
SP4_TCT1_2	cluster_6	Common_2	3936	33902.142	3948	34307	256.5829	1.2845	0.3612	0.001	0.0010435	13756	146350	61.849	5168	55411	21.417	4209	3957	48.403	30.249	29.7547	77.7375	
SP4_GATA_known16	cluster_6	Common_2	34224	25621.42	34224	34224	25621.42	1.2841	0.3612	0.001	0.0010435	34224	256214	1.2841	0.3612	0.001	0.0010435	34224	256214	1.2841	0.3612	0.001	0.0010435	
SP4_SOX10_9	cluster_6	Common_2	12820	14111.847	13813	14417	180.0865	1.284	0.3607	0.001	0.0010435	30852	61408	27.883	16108	37524	27.883	16108	37524	27.883	36.006	35.106	75.349	
SP8_EGR1_1	cluster_6	Common_2	18039	162285.446	161889	162989	421.4617	1.2836	0.3602	0.001	0.001	3654	94098	68.54	21327	238147	47.161	18370	20839	41.252	60.525	60.1879	87.1121	
SP4_HNF1B_1	cluster_6	Common_2	4011	4099.1	4099.1	4099.1	4099.1	1.2836	0.3602	0.001	0.001	4011	4099.1	4099.1	4011	4099.1	4099.1	4011	4099.1	4099.1	4011	4099.1	4099.1	
SP4_SOX4_2	cluster_6	Common_2	2519	19604.657	19291	19898	199.0658	1.2833	0.3599	0.001	0.0010909	4816	72432	63.066	2240	32027	27.886	1721	2519	35.066	40.795	34.746	76.8304	
DP_SMD_1	cluster_6	Common_2	6644	5177.201	5041	5307	78.9188	1.2833	0.3598	0.001	0.0013333	804	11233	66.811	620	7821	21.620	46.158	21.620	46.158	21.620	46.158	83.7097	
DP_HNF1B_1	cluster_6	Common_2	4661	4209.68	4209.68	4209.68	4209.68	1.2833	0.3598	0.001	0.0013333	4661	4209.68	4209.68	4661	4209.68	4209.68	4661	4209.68	4209.68	4661	4209.68	4209.68	
SP4_SOX11_1	cluster_6	Common_2	11584	9628.795	8003	9276	140.561	1.283	0.3595	0.001	0.0010909	2170	32640	66.561	1044	14517	29.159	82	11584	23.281	37.494	35.4902	77.778	
SP8_FOXO_4	cluster_6	Common_2	980	7461.336	7413	7905	140.561	1.283	0.3595	0.001	0.0010909	2279	29043	58.324	1097	13493	27.097	785	980	19.748	31.864	30.7762	77.588	
DN_SPC_2	cluster_3	DN	5704	4457.547	44037	44837	201.7214	1.2829	0.3594	0.001	0.0010435	21125	27517	74.226	4773	60126	18.343	4469	5704	15.376	20.7158	19.6308	94.076	
DP_PATZ1_2	cluster_6	Common_2	54827	416984.224	415621	418218	791.6634	1.2829	0.3594	0.001	0.001	72910	959384	65.12	47943	644744	43.772	40996	54827	36.931	56.282	55.785	82.743	
DP_PATZ1_1	cluster_6	DP	144248	11247.406	111631	11342	530.9175	1.2825	0.359	0.001	0.001	7910	959384	65.12	19783	175131	11.89	11244	144248	39.111	54.218	53.086	82.3658	
SP4_FOXP2_known16	cluster_6	Common_2	12047	9393.812	9179	9647	145.9564	1.2824	0.3589	0.001	0.0010909	2634	34487	68.999	1305	16413	27.917	946	12047	20.491	35.515	34.796	74.904	
DN_HNF_1	cluster_6	Common_2	21326	16630.133	16334	16921	159.6388	1.2824	0.3588	0.001	0.0010435	7307	46509	68.576	1788	24845	18.746	1539	21326	31.345	45.835	45.176	86.7298	
DP_HNF1B_1	cluster_6	DP	11650	90506.666	99834	91169	414.475	1.2822	0.3586	0.001	0.001	86014	850789	64.652	12962	144121	10.257	10488	11650	83.847	13.795	13.603	82.059	
SP4_HNF1_1	cluster_6	Common_2	41981	32140.814	32179	32325	303.658	1.2822	0.3586	0.001	0.001429	10041	90398	24.501	18447	135584	36.088	4652	41981	11.34	46.286	45.333	81.4248	
SP4_EGR1_known12	cluster_6	Common_2	49414	385447.461	384953	386651	775.8039	1.2819	0.3583	0.001	0.001	50653	83476	66.661	33993	584207	46.655	30219	49414	39.44	60.128	59.1948	84.5786	
SP4_SOX4_1	cluster_6	Common_2	7816	57434.649	56881	58057	358.8183	1.2817	0.3581	0.001	0.0010435	10267	205161	65.153	5901	90966	28.888	4688	7816	23.378	37.088	35.821	80.529	
DN_HNF1A_1	cluster_6	Common_2	30659	2387.355	23593	24295	221.6653	1.2811	0.3574	0.001	0.0010435	5885	82354	67.342	2777	39941	30.053	2268	30659	24.97	38.5387	37.1793	83.0865	
DN_HF_known14	cluster_3	DN	62756	48929.68	48419	49497	322.7346	1.2809	0.3572	0.001	0.001	16194	34215	77.672	9126	12676	14.916	19559	62756	47.23	60.216	59.376	93.276	
SP8_AHR-ARRNT-HNF1A_1	cluster_6	Common_2	6975	5467.865	54147	54788	193.938	1.2807	0.3569	0.001	0.0010435	10111	103885	71.095	3935	76813	52.669	8532	6975	47.6	67.652	67.2759	90.8115	
DP_EGR1_known12	cluster_6	Common_2	492229	394601.155	383349	393835	790.2318	1.2806	0.3565	0.001	0.001	93360	65.56	33995	584207	46.655	30222	492229	39.669	60.0147	59.969	83.6338		
SP4_HNF1A_2	cluster_6	Common_2	115457	90143.153	89628	90732	339.1053	1.2802	0.3564	0.001	0.001	13692	183403	69.274	5927	130767	49.392	8667	115457	43.609	63.2997	62.926	87.7938	
DN_CUX2_2	cluster_6	Common_1_DN	657	512.991	547	552	26.224	1.2802	0.3563	0.001	0.0013333	368	3312	68.275	97	790	16.285	219	657	13.544	17.837	18.837	83.1643	
DP_CUX1_1	cluster_6	Common_2	55706	4902	55706	4902	973.279	1.28	0.356	0.001	0.001	55706	4902	4902	55706	4902	55706	4902	4902	55706	4902	4902	55706	4902
DP_AFP1_known1	cluster_6	SP4	8116	6340.585	6237	6523	122.5746	1.28	0.3561	0.001	0.001	8116	6340.585	6237	8116	6340.585	6237	8116	6340.585	6237	8116	6340.585	6237	
SP4_KLF2_1	cluster_6	DP	9834	7653.471	7623	7746	362.3423	1.2799	0.356	0.001	0.001	78004	740702	63.709	12881	122193	10.442	10326	9834	8.4848	13.446	13.2798	80.1646	
SP4_HNF1_1	cluster_6	Common_2	49374	34098.448	34098.448	34098.448	34098.448	1.2799	0.356	0.001	0.001	49374	34098.448	34098.448	49374	34098.448	34098.448	49374	34098.448	34098.448	49374	34098.448	34098.448	
SP4_SOX10_1	cluster_6	Common_2	20510	16028.905	15669	16377	204.0577	1.2795	0.3556	0.001	0.0010435	1472	56229	63.32	1811	26229	29.111	1409	20510	21.062	37.637	37.8023	84.5758	
SP4_HNF1B_2	cluster_6	SP4	2838	2253.27	2126	2378	75.1055	1.2793	0.3554	0.001	0.0010435	1678	23553	66.504	254	3426	9.676	238	2838	8.204	12.603	12.2405	83.8583	
DN_HNF1_1	cluster_6	Common_2	8031	4809.142	48384	48384	260.856	1.2793	0.355	0.001	0.001	43268	260.856	1.2793	0.355	0.001	43268	260.856	1.2793	0.355	0.001	43268	260.856	
DP_EGR1_1	cluster_6	DP	43017	33659.212	33909	34034	232.6618	1.278	0.3539	0.001	0.001	29511	334771	66.296	4956	51128	13.046	4801	43017	8.5189	13.046	13.046	83.765	
DP_GME1_1	cluster_6	Common_2	65602	51338.004	50910	51742	257.7411	1.2779	0.3538	0.001	0.0010435	5868	92146	67.496	4719	76123	55.459	4041	65602	47.707	70.809	69.6325	86.1359	
DN_EGR1_1	cluster_6	Common_2	24928	17188.717	16179	19562	121.3518	1.2778	0.3536	0.001	0.001	25965	17898	68.65	13908	24737	37.46	15750	24928	22.356	34.341	33.895	82.3825	
DN_EK3_1	cluster_6	DN	4796	5489.647	5428	5708	148.103	1.2777	0.3535	0.001	0.001429	6350	57429	65.399	2139	29574	18.604	7881	6976	32.293	41.1684	40.973	83.1429	
SP4_SOX11_1	cluster_6	Common_2	13563	10636.204	10405	10833	136.2699	1.2775	0.3534	0.001	0.0010435	3166	41308	65.459	1367	16802	26.625	1083	13563	13.293	34.2072	33.2838	80.7225	
DN_TCF7L1_known7	cluster_5	Common_1_DN	49743	38944.844	38407	39343	273.239	1.2773	0.3531	0.001	0.0010435	14258	20141	70.809	4202	56378	19.788	3668	49743	17.468	25.567	24.661	87.2918	
DN_TCF7L1_1	cluster_5	Common_1_DN	49743	38944.844	38407	39343	273.239	1.2773	0.3531	0.001	0.0010435	14258	20141	70.809	4202	56378	19.788	3668	49743	17.468	25.567	24.661	87.2918	
DP_CFCI_known1	cluster_6	Common_2	99319	78803	78803	78803	78803	1.2771	0.3529	0.001	0.0010435	13139	198117	70.718	3640	55600	19.846	3627	99319	23.559	25.701	24.692	87.3838	
SP4_TCF7L1_known7	cluster_6	Common_2	5230	4204.364	40294	41362	319.817	1.2769	0.3526	0.001	0.0010435	12562	16146	61.995	6944	69605	23.495	4580	5230	10.326	18.503	18.296	94.0935	
DN_MGA_2	cluster_6	Common_2	29188	18736.61	18449	19032	137.5955	1.2766	0.3523	0.001	0.0010909	1760	114146	75.028	2385	25429	16.714	1954	29188	15.706	24.624	24.373	90.8658	
DP_HES1_1																								

DN	SMAD_1	cluster_3	DN	33266	26366.364	26080	21623	154.565	1.2617	0.0383	0.001	0.001429	20794	166413	76.255	4442	34936	16.009	4217	33266	15.243	202799	19.99	94.9547	95.2198	
DN	SHREI_1	cluster_3	Common_1	102967	115804.796	102967	21696	209.7096	1.26	0.2388	0.001	0.001429	20794	166413	76.255	4442	34936	16.009	4217	33266	15.243	202799	19.99	94.9547	95.2198	
DN	POU2F2_known6	cluster_5	Common_1	9890	789.729	7636	8029	121.6861	1.2615	0.3811	0.001	0.001009	3024	38449	67.778	965	11945	20.317	781	8099	16.222	25.857	24.8187	80.326	82.7961	
DN	CU2_1	cluster_5	Common_1	1409	1117.111	1027	1193	50.9774	1.2611	0.3846	0.001	0.001262	444	7998	10.592	100	1592	10.947	86	1499	10.339	18.904	17.6169	86	88.505	
DN	MHC_known20	cluster_5	Common_1	3588	2936.126	2798	2798	265.6507	1.2629	0.3845	0.001	0.001262	444	7998	10.592	100	1592	10.947	86	1499	10.339	18.904	17.6169	86	88.505	
DN	SOX17_4	cluster_5	Common_1	10615	8420.808	8261	8604	120.847	1.2605	0.334	0.001	0.001009	3186	46015	72.668	919	12059	19.744	1059	10615	23.086	86.925	86.4035	86.423	88.0255	
SPR	EV1_1	cluster_6	Common_2	26735	21209.405	20821	21572	220.5282	1.2605	0.334	0.001	0.001009	4842	49340	25.502	6288	8938	84823	48.205	2952	2975	15.384	60.966	60.9881	31.7147	31.7055
DN	TCF7L2	cluster_6	Common_2	20036	16062.48	15000	20376	196.051	1.2605	0.334	0.001	0.001009	4842	49340	25.502	6288	8938	84823	48.205	2952	2975	15.384	60.966	60.9881	31.7147	31.7055
DN	EV2_4	cluster_3	DN	4977	3917.292	3770	4128	124.893	1.2602	0.3317	0.001	0.0011429	5010	40275	26.285	1685	1685	16023	8.7713	5925	2862	11.0779	10.9045	11.0779	82.8193	82.8193
DN	TCF7L1_2	cluster_3	Common_1	40622	62326.46	31866	32597	222.3259	1.2601	0.3316	0.001	0.0010435	14657	161969	71.069	4236	4236	46520	20.2721	3773	40622	17.8242	25.742	25.0801	87.2168	87.2168
DN	SOX1_2	cluster_3	Common_1	9310	7236.1	7236	7536	88.2177	1.2601	0.3315	0.001	0.0010435	14657	161969	71.069	4236	4236	46520	20.2721	3773	40622	17.8242	25.742	25.0801	87.2168	87.2168
SP4	ATF2_1	cluster_6	Common_2	4128	4872.521	4788	5957	108.521	1.2597	0.3313	0.001	0.0010435	14657	161969	71.069	4236	4236	46520	20.2721	3773	40622	17.8242	25.742	25.0801	87.2168	87.2168
SP4	ER3_2	cluster_6	Common_2	42904	351623.62	35021	35280	669.8074	1.2596	0.3313	0.001	0.001	10173	887127	69.845	33684	50918	51.527	29275	442904	65.0079	64.4574	65.0079	87.5475	87.5475	
DN	IKK_2	cluster_6	Common_2	27320	218236.1	217320	20238	277.5688	1.2594	0.3312	0.001	0.001429	20794	166413	76.255	4442	34936	16.009	4217	33266	15.243	202799	19.99	94.9547	95.2198	
DN	SOX11_2	cluster_6	Common_2	22297	17704.623	17319	18055	209.6914	1.2594	0.3327	0.001	0.001	10174	165055	67.697	1476	26269	10.745	1402	22297	97.1022	11.8271	11.8271	83.6156	84.8795	
DN	ITK1_2	cluster_5	Common_1	10971	9456.721	9257	9676	122.7488	1.2591	0.3324	0.001	0.001009	3074	52487	10.358	1049	13569	10.899	11907	11907	11.9429	12.5856	12.5856	87.7515	87.7515	
DN	MFI1A_INT_1	cluster_2	DP	10171	8083.117	7939	8239	92.8702	1.2591	0.3314	0.001	0.001	10494	7476	67.161	1713	12081	10.751	1433	10171	9.0055	13.6564	13.6564	84.1831	84.1831	
SP8	GMEB2_3	cluster_6	Common_2	20006	19002.409	15682	16120	131.2292	1.258	0.3312	0.001	0.0010435	2004	29627	11.145	1503	22378	53.738	1417	20006	48.042	67.6995	67.6995	89.4003	89.4003	
DN	MAF_known12	cluster_3	DN	34711	27608.707	27226	27969	224.7349	1.258	0.3311	0.001	0.0010435	9989	170271	77.196	2214	23416	36.416	2098	34711	21.0031	25.3075	25.3075	84.7606	84.7606	
DN	FOXO_1	cluster_3	DN	76525	62541.918	62037	63948	296.6044	1.2577	0.3302	0.001	0.0010435	28991	373838	76.349	6537	81559	16.984	76525	76525	21.5142	21.0318	21.0318	94.241	94.241	
SP4	HES1_2	cluster_6	Common_2	4611	3682.212	3527	3812	87.3417	1.2576	0.3307	0.001	0.0010435	899	12600	63.31	451	5980	30.047	341	4611	23.269	37.931	37.931	75.6088	75.6088	
SP4	FOSL1_2	cluster_6	Common_2	27700	22029.251	21698	22353	189.8443	1.2574	0.3305	0.001	0.0010435	5633	74003	67.715	2720	33781	21.298	27700	27700	39.0021	36.7439	36.7439	80.8088	81.9988	
DN	FOXO2_2	cluster_3	DN	76525	62541.918	62037	63948	296.6044	1.2577	0.3302	0.001	0.0010435	28991	373838	76.349	6537	81559	16.984	76525	76525	21.5142	21.0318	21.0318	94.241	94.241	
DN	FOXO1_4	cluster_3	DN	8513	6851.314	6678	7030	107.0124	1.2571	0.3301	0.001	0.001	7638	61420	58.2	3003	39213	11.702	553	8513	11.177	15.3483	15.3483	95.4617	95.4617	
SP4	MFI1E_1	cluster_4	SP4	68958	54877.884	54314	55403	336.2174	1.2566	0.3295	0.001	0.001	7638	61420	58.2	3003	39213	11.702	553	8513	11.177	15.3483	15.3483	95.4617	95.4617	
DN	MGA_3	cluster_3	DN	21340	16888.391	16699	17280	173.0242	1.2561	0.329	0.001	0.001009	4115	109567	77.12	1383	22542	15.91	1297	21340	15.662	20.1282	20.1282	94.6777	94.6777	
DN	MATF1_3	cluster_3	DN	12656	10076.273	9905	10258	105.663	1.256	0.3288	0.001	0.001009	4137	53815	79.338	1065	13171	19.418	1007	12656	18.058	24.383	24.383	96.0899	96.0899	
SP4	TVL_2	cluster_6	Common_2	26827	21358.568	20626	21696	209.7096	1.256	0.2388	0.001	0.001429	20794	166413	76.255	4442	34936	16.009	4217	33266	15.243	202799	19.99	94.9547	95.2198	
SP4	SP1_1	cluster_6	Common_2	91203	72642.949	72479	72804	4029.2358	1.2556	0.3284	0.001	0.001	80015	141454	69.533	58871	104812	50.589	51033	91203	63.013	63.6262	63.6262	86.861	86.9577	
DP	KLF7_1	cluster_2	DP	149619	119780.64	118184	120199	601.813	1.2554	0.3282	0.001	0.001	72075	1166887	65.914	11820	183259	10.352	9500	149619	45.916	13.1844	13.1844	12.8221	13.1844	
SP8	GMEB1_2	cluster_6	Common_2	91466	51466.213	49423	51466	254.3142	1.2554	0.3282	0.001	0.001	4719	59111	47.9	6902	6902	6902	6902	6902	6902	6902	6902	6902	6902	6902
DP	SPDEF_6	cluster_6	Common_2	7014	56411.179	56991	56423	127.9213	1.2553	0.328	0.001	0.001	8667	121736	58.62	8942	8942	8942	8942	8942	8942	8942	8942	8942	8942	8942
DN	SOX1_6	cluster_5	Common_1	91819	7265.946	7067	7478	127.111	1.2552	0.3277	0.001	0.001429	20794	166413	76.255	4442	34936	16.009	4217	33266	15.243	202799	19.99	94.9547	95.2198	
DN	SOX1_1	cluster_5	Common_1	88481	69931.1	69311	71329	548.8951	1.2549	0.3276	0.001	0.001009	3186	46015	72.668	919	12059	19.744	1059	88481	48.206	60.966	60.966	86.925	86.925	
SP8	ER4_2	cluster_6	Common_2	509243	400651.112	400002	407877	710.1569	1.2544	0.3267	0.001	0.001	50126	822881	71.563	35489	57963	48.822	31409	509243	44.282	62.6401	62.6401	81.8779	81.8779	
DN	REL_1	cluster_3	DN	24634	19905.804	19675	20126	138.2769	1.2541	0.3266	0.001	0.001	15073	136291	76.106	3006	27615	14.806	2816	24634	13.1844	18.3167	18.3167	93.6793	94.1505	
DN	SP1_known2	cluster_6	Common_2	51466	51466.213	49423	51466	254.3142	1.2554	0.3282	0.001	0.001	4719	59111	47.9	6902	6902	6902	6902	6902	6902	6902	6902	6902	6902	6902
DN	NFIB_known10	cluster_3	DN	25391	20248.655	19998	20511	164.0453	1.2539	0.3264	0.001	0.001	13986	155666	77.254	2275	26672	13.237	2197	25391	12.6011	16.3112	16.3112	94.9011	94.9011	
DN	RUNX2_4	cluster_5	Common_1	9265	7788.629	7231	7535	92.134	1.2539	0.3264	0.001	0.001009	3083	37161	71.637	1026	10306	20.367	947	9265	18.205	25.7127	25.7127	84.8651	85.8979	
DN	FOXO1_2	cluster_3	DN	76525	62541.918	62037	63948	296.6044	1.2577	0.3302	0.001	0.0010435	28991	373838	76.349	6537	81559	16.984	76525	76525	21.5142	21.0318	21.0318	94.241	94.241	
SP8	SP1_known2	cluster_6	Common_2	1026245	818468.827	818788	820073	887.0843	1.2539	0.3264	0.001	0.001	116483	1617881	82.234	1146633	50.955	73877	1026245	45.283	60.4239	60.4239	83.4314	83.5008		
SP4	EV1_1	cluster_6	Common_2	27437	21884.438	21524	22246	225.5662	1.2537	0.3262	0.001	0.001009	5001	45274	25.882	5908	84323	48.205	2952	27437	15.384	60.966	60.966	31.7147	31.7147	
DP	MFI1A_2	cluster_6	Common_2	207224	168249.207	168224	218159	523.0882	1.2536	0.3261	0.001	0.001	23005	326217	68.018	20026	20026	20026	20026	20026	20026	20026	20026	20026	20026	20026
SP8	MFI1A_1	cluster_3	SP8	8129	6485.447	6316	6628	107.6755	1.2534	0.3258	0.001	0.0010435	11568	130394	67.952	879	9269	6.9451	734	8129	4.2428	6.9451	6.9451	83.504	83.504	
SP8	ATF3_known4	cluster_3	SP8	9697	7737.561	7312	7946	130.7117	1.2532	0.3256	0.001	0.001	8003	112435	69.067	803	11313	16.433	8167	9697	5.5152	8.167	8.167	7.9853	84.8485	
DN	FOXO1_6	cluster_																								

DP	HFIA_2	cluster_2	DP	23876	19388.8	18055	19717	204.4607	1.2314	0.3003	0.001	0.001	13829	185302	69.991	2138	27148	10.519	1817	23876	91.033	131391	12.879	84.886	85.7389		
DN	FCIA_1	cluster_1	DN	3021568	61512.3	74858	7821	112.2982	1.2234	0.2269	0.001	0.001429	19203	18901	63.0001	18200	11444	10.519	1817	23876	91.033	131391	12.879	84.886	85.7389		
DN	POU2F2_known11	cluster_5	Common_1	1118	10586.667	10494	10864	111.3924	1.2307	0.2995	0.001	0.0010435	5022	55147	73.881	4781	19.802	1346	13118	15.734	24.038	23.7873	21.643	87.9164	88.7491		
DN	SOU2_9	cluster_5	Common_1	13086	10604.60	10373	10878	144.6057	1.2307	0.2995	0.001	0.0010435	4222	59134	70.343	1131	15.642	13062	974	13906	13.528	24.038	23.7873	21.643	87.9164	88.7491	
DN	SOU2_10	cluster_5	Common_1	6965	10586.667	10494	10864	111.3924	1.2307	0.2995	0.001	0.0010435	4222	59134	70.343	1131	15.642	13062	974	13906	13.528	24.038	23.7873	21.643	87.9164	88.7491	
DN	RUN_2	cluster_3	DN	10562	9806.996	9749	9865	38.6748	1.2301	0.2888	0.001	0.0010435	26180	99796	96.459	9259	129043	24.83	8615	10562	23.198	30.703	30.3443	27.449	93.4778	93.0446	
DN	ATF_1	cluster_1	DN	5058	4103.862	3939	4207	62.6664	1.23	0.2887	0.001	0.0010435	4516	31617	73.316	810	5616	11023	73	10562	10.718	16.572	16.572	16.572	86.0426	89.886	
DN	HWB2_4	cluster_5	Common_1	2012	10788.272	10711	9954	139.7209	1.23	0.2887	0.001	0.0010435	2196	23881	79.609	389	5017	9008	369	369	5017	18.487	18.487	18.487	18.487	85.1746	86.106
SP4	IES_known13	cluster_4	SP4	12878	10475.22	10184	10763	173.2648	1.2294	0.2979	0.001	0.001	10034	164235	67.178	1059	16175	80.678	1059	16175	80.678	1059	16175	80.678	1059	16175	80.678
DN	IDA_1	cluster_4	DN	18545	11017.43	109640	110829	334.478	1.2289	0.2974	0.001	0.0010435	48445	44152	76.691	16281	25525	25.015	15007	135445	20.765	30.6331	30.6331	30.6331	92.2978	92.6912	
DN	POU2F1	cluster_5	Common_1	16631	10376.649	114949	114823	350.6479	1.2288	0.2973	0.001	0.0010435	48417	44152	76.691	16281	25525	25.015	15007	135445	20.765	30.6331	30.6331	30.6331	92.2978	92.6912	
SP4	SP1_known2	cluster_4	SP4	90366	7305.1597	72927	74109	388.4048	1.2283	0.2967	0.001	0.001	112736	156580	68.085	4420	164510	5.4484	80306	48284	6.0099	9.2649	9.2649	9.2649	81.2763	82.2621	
DN	RUN_1	cluster_3	DN	153443	124209.589	124273	125060	374.6002	1.2282	0.2966	0.001	0.0010435	34722	490227	76.602	11766	104170	25.438	10949	153443	21.991	31.294	31.294	31.294	91.0563	91.5063	
DN	HEIS_1	cluster_5	Common_1	2613	1102.122	11020	21576	164.1411	1.2276	0.2961	0.001	0.0010435	21145	302226	62.000	2170	114823	26.615	2170	114823	26.615	2170	114823	26.615	2170	114823	26.615
DN	FOX_1	cluster_5	Common_1	2402	15999.531	92528	19928	199.1788	1.2277	0.2959	0.001	0.0010435	8206	98530	71.552	2422	27958	29.303	2057	24062	27.421	38.007	38.007	38.007	84.9208	86.0648	
DN	SOU2_9	cluster_5	Common_1	7671	4411.81	6234	6568	97.8183	1.2275	0.2958	0.001	0.0010435	2636	34308	73.038	313	9054	18.283	680	7871	16.754	23.068	23.068	23.068	86.1833	86.8956	
DN	POU2F1	cluster_5	Common_1	16322	11296.103	13023	11561	154.4306	1.2275	0.2958	0.001	0.0010435	4595	69456	74.624	3707	18511	1332	16322	24.655	32.4998	32.4998	32.4998	86.1833	86.8956		
DN	HB1_1	cluster_3	DN	29379	23933.685	23731	24123	127.0011	1.2275	0.2957	0.001	0.0010435	16019	112373	70.077	4517	31035	21.582	4261	23979	20.431	26.997	26.997	26.997	94.6461	94.6461	
SP4	HFIA_2	cluster_4	SP4	11378	9270.447	9038	9522	149.5685	1.2273	0.2955	0.001	0.001	13692	183403	69.274	1053	13560	5.1218	876	13978	4.976	6.399	6.399	6.399	81.909	81.909	
SP4	KCF1_1	cluster_3	SP4	102738	8289.58	82054	83794	504.781	1.2273	0.2955	0.001	0.001	73121	1217400	68.768	8057	123646	6.9471	6563	10738	5.7669	8.257	8.257	8.257	81.4571	82.403	
DP	IGR_2	cluster_2	DP	91750	4794.737	4809	7540	414.5003	1.2267	0.2948	0.001	0.001	45781	696461	71.099	7154	106180	10.793	6096	9332	13.516	18.1172	18.1172	18.1172	86.4009	86.4009	
DP	ETV1_1	cluster_6	Common_2	27833	22710.249	23249	23113	232.8696	1.2256	0.2934	0.001	0.0010909	5186	46934	26.831	9308	84823	48.205	3027	27833	15.917	22.5624	22.5624	22.5624	93.0076	93.0076	
DN	HRM_2	cluster_5	Common_1	15207	12411.57	12120	12656	151.3954	1.2252	0.293	0.001	0.0010909	4326	64953	73.757	2244	17494	19.965	1869	15207	17.260	24.111	24.111	24.111	85.0325	86.9209	
DN	HB1_1	cluster_5	Common_1	18994	15507.55	15211	15792	177.9865	1.2248	0.2936	0.001	0.0010435	8513	79302	73.662	1516	21821	18.224	18994	18994	17.643	23.945	23.945	23.945	86.1478	87.0444	
SP4	SP4_1	cluster_4	SP4	86726	70909.848	69969	71546	473.1507	1.2248	0.2935	0.001	0.001	51035	1441564	69.533	6296	102623	5.0772	5904	88976	4.1832	6.3004	6.3004	6.3004	80.9085	82.3946	
DN	GATA_known16	cluster_5	Common_1	31419	24553.901	25209	26705	292.2317	1.2247	0.2934	0.001	0.0010435	6076	128652	74.297	1623	20955	18.205	1894	2874	25.561	35.206	35.206	35.206	87.5936	88.5631	
DN	MESP1_1	cluster_3	DN	12223	91648.833	91422	92080	258.517	1.2245	0.2932	0.001	0.001	44484	40132	76.45	13254	120595	22.955	15356	12222	21.561	28.1009	28.1009	28.1009	90.6169	90.6169	
SP4	ESR_1	cluster_4	SP4	28333	23476.774	23122	23883	221.8282	1.2239	0.2931	0.001	0.001	29733	337110	66.76	3057	35643	5.9898	2598	28733	5.0909	8.752	8.752	8.752	79.7033	80.3333	
DN	SOX1_5	cluster_5	Common_1	9358	7649.064	7428	7821	112.2982	1.2234	0.2929	0.001	0.001	44126	521751	70.086	850	10269	10.519	1817	23876	91.033	131391	12.879	84.886	85.7389	86.106	
DN	SOX_4	cluster_5	Common_1	2132	18908.38	18586	19208	184.8021	1.2233	0.2928	0.001	0.0010909	6342	96988	74.108	2638	28308	20.379	2414	2132	17.897	23.2899	23.2899	23.2899	87.8272	88.7026	
DP	IGR_3	cluster_2	DP	60900	49124.609	48585	49704	336.7892	1.2232	0.2927	0.001	0.001	31817	469884	71.003	4864	68807	10.683	4164	60900	9.3955	12.9509	12.9509	12.9509	91.1974	92.076	
DP	KCF1_1	cluster_3	DP	5903	4604.187	4590	4634	61.5641	1.2229	0.2926	0.001	0.0010435	4286	29884	67.408	1426	16388	12.048	1426	5903	7.378	9.2487	9.2487	9.2487	81.7277	82.607	
DN	KCF2_1	cluster_3	DN	4113	36115.532	35966	36376	37.7588	1.2225	0.2898	0.001	0.0010435	2713	21711	75.439	5902	46424	16.837	5633	4113	16.175	20.6997	20.6997	20.6997	95.4422	95.8748	
SPR	SP1D_1	cluster_6	Common_2	6990	5721.025	5866	5839	73.5397	1.2218	0.289	0.001	0.001333	9256	12440	73.99	620	7821	46.518	546	6990	46.171	57.133	57.133	57.133	88.0645	89.1609	
DP	ATF_1	cluster_2	DP	5821	5821.013	5803	5838	384.0021	1.2214	0.2887	0.001	0.0010435	5838	38402	73.038	4973	7821	46.518	546	5821	46.518	57.133	57.133	57.133	89.8208	90.6808	
DP	ATF_2	cluster_2	DP	784	641.682	598	628	87.246	1.2214	0.2886	0.001	0.0010435	1296	9072	66.75	137	959	7.0561	112	784	6.42	8.17518	8.17518	8.17518	87.5178	88.642	
DN	SOX_2	cluster_5	Common_1	22475	18402.42	18095	18691	173.1491	1.2213	0.2884	0.001	0.0010909	9001	94609	74.032	1805	25856	20.065	1571	22475	17.577	24.926	24.926	24.926	87.6013	88.2013	
DN	IGR_4	cluster_3	DN	102358	10235.8	10200	10358	396.0081	1.2209	0.2879	0.001	0.001	102358	10235.8	10200	10358	396.0081	1.2209	0.2879	0.001	0.001	102358	10235.8	10200	10358	396.0081	1.2209
DN	IGR_4	cluster_3	DN	16199	11269.306	10920	13513	148.0284	1.2208	0.2878	0.001	0.001	8373	109062	76.033	1792	17593	12.265	1573	16199	11.293	15.197	15.197	15.197	92.0764	92.0764	
DN	KF1_2	cluster_3	DN	94200	77748.437	76001	7773	347.9672	1.2205	0.2875	0.001	0.001	46999	67450	77.85	1945	10882	11.679	6818	94200	10.005	14.5067	14.5067	14.5067	91.8251	92.704	
DN	KF2_1	cluster_3	DN	134	10802	10719	11059	119.3064	1.2205	0.2875	0.001	0.0010909	1499	19514	67.089	2071	1499	10.005	14.5067	134	10802	10.719	14.5067	14.5067	14.5067	91.8251	92.704
DN	SP1_known3	cluster_2	DN	6607	7880.896	78150	79230	331.8559	1.2202	0.2871	0.001	0.001	47992	62973	78.933	10310	12667	21.877	15647	6607	12.045	17.735	17.735	17.735	94.1626	94.1626	
DP	SP4_1	cluster_2	DP	186313	152712.583	151733	153806	684.5286	1.22	0.2868	0.001	0.001	81873	1469721	70.891	12677	218773	10.552	10647	186313	8.9867	13.061	13.061	13.061	85.7557	86.726	
DN	AHR-ANN-7	cluster_5	Common_1	50816	42655.09	42418	44279	293.5001	1.2197	0.2867	0.001	0.0010435	42418	44279	293.5001	1.2197	0.2										

DN	ESR3_3	cluster_3	DN	55769	46966.804	46493	47432	279.5811	1.1874	0.0478	0.001	0.001	35070	516864	79.095	4806	60531	9.263	3897	55769	83.343	10.7899	81.953	92.133	
DN	SP4	ESR3_1	cluster_1	DN	5090	41022.911	42006	23683	207.9859	1.1754	0.2332	0.01	0.01	5105	105647	77.12	1827	21521	7.908	5090	5090	5.1264	5.8946	60.844	
DN	HRF know1	cluster_5	Common_1_DN	20861	25519.473	25196	25861	198.0038	1.1856	0.2468	0.001	0.01	3444	150563	76.655	2468	54061	10.334	2162	30314	17.708	22.419	87.603	88.262	
DN	SP4	ESR3_4	cluster_4	SP4	38251	24073.238	23668	24432	230.9575	1.1864	0.2466	0.001	0.01	31018	457688	70.537	2490	34990	5.345	2005	28561	43.787	6.2405	80.521	81.923
DN	EFV5_1	cluster_1	Common_1_DN	26229	19366.421	19227	19457	132.4040	1.2464	0.1240	0.001	0.01	10247	138099	78.536	504	10445	10.145	3567	15017	2.005	10.5177	81.959	82.046	
DN	FPV5_1	cluster_6	Common_2	72237	69082.966	69038	6191	171.8058	1.1861	0.2462	0.001	0.0010435	12005	109704	76.51	8191	79055	55.448	7923	72237	65.738	65.874	90.582	90.854	
DN	DKP2_3	cluster_5	Common_1_DN	16710	14113.765	13960	14299	120.9859	1.1839	0.2436	0.001	0.0010909	7087	71094	80.484	1879	18181	20.582	1733	16710	10.319	24.432	91.576	91.991	
DN	DKP2_1	cluster_3	Common_1_DN	29214	24607.413	24272	24694	229.0523	1.2387	0.2407	0.001	0.0010909	7560	130407	76.61	2408	24608	20.607	2569	29214	19.065	24.756	86.216	86.338	
DN	SP4	CUX2_2	cluster_6	Common_2	1497	1207.818	1155	1271	34.8385	1.1833	0.2424	0.001	0.0013333	387	3483	7.18	207	1769	36.467	1429	2858	16.428	10.0728	80.763	80.781
DN	SDX1_3	cluster_5	Common_1_DN	12531	10594.897	10357	10385	144.3517	1.1827	0.2421	0.001	0.0010909	3794	53161	70.646	1186	15495	20.591	941	12531	23.952	24.803	93.739	93.843	
DN	MDF know1	cluster_1	Common_1_DN	32729	24622.313	24650	24624	217.5971	1.2825	0.2419	0.001	0.0010909	11107	33002	74.108	3447	33002	22.042	3107	32729	20.96	21.9	91.23	91.23	
DN	DN	CUX1_9	cluster_5	Common_1_DN	1895	1602.608	1498	1703	62.8777	1.1823	0.2416	0.001	0.0012632	611	10867	73.396	144	2263	15.284	118	1895	12.799	17.431	81.944	81.944
DN	BNP1_1	cluster_5	Common_1_DN	5219	44902.135	43736	44467	240.4908	1.1182	0.2413	0.001	0.0010909	15844	211822	75.51	4683	21182	40.28	5219	5219	25.429	26.429	86.012	86.173	
DN	RUND5_1	cluster_5	Common_1_DN	8100	68602.919	68602	8100	68602.919	1.1831	0.2411	0.001	0.0010909	18109	21376	74.516	1726	18109	40.023	8100	8100	16.014	16.014	93.823	93.823	
DN	HRF4_1	cluster_5	Common_1_DN	2506	21184.149	20924	21503	176.1281	1.1818	0.241	0.001	0.001	7484	113800	77.321	2042	28028	19.165	1802	2506	22.864	22.864	89.125	89.125	
DN	SPR	EFV5_1	cluster_1	SPR	1988	1682.698	1540	1813	83.2522	1.1813	0.2404	0.001	0.0010435	4199	38058	76.542	716	835	4.812	221	1988	1.3805	1.3805	90.869	91.2825
DN	GMER3_3	cluster_3	DN	4177	3336.697	3421	3646	49.1744	1.1812	0.2402	0.001	0.0010435	2360	33394	80.191	322	4464	10.79	299	4177	10.03	10.03	93.578	93.578	
DN	WVX2_3	cluster_3	DN	29764	25209.486	24842	25464	153.1655	1.1807	0.2396	0.001	0.001	21157	191106	79.065	8625	32109	21.884	3347	29764	12.314	15.746	93.211	93.211	
DN	SDX1_3	cluster_5	Common_1_DN	13203	11186.371	10961	11449	143.4005	1.1803	0.2391	0.001	0.0010909	4027	57347	70.134	1254	15454	20.123	984	13203	24.049	24.049	76.489	80.419	
DN	STAT know3	cluster_3	DN	27966	23142.266	23334	24084	213.1272	1.1779	0.2382	0.001	0.0010435	8827	17340	82.488	1560	29265	13.731	1683	27966	12.664	16.4008	85.782	85.782	
DN	SP4	ATF4_1	cluster_1	SPR	13901	11805.017	11493	11215	190.1041	1.1775	0.2358	0.001	0.0010909	33174	298877	45.732	3963	26049	15.896	13901	21199	4.6004	4.6356	52.692	53.3648
DN	DN	ATF3_3	cluster_5	Common_1_DN	15127	12848.081	12628	13074	136.7396	1.1774	0.2356	0.001	0.0010909	4863	63288	72.723	1433	17948	20.624	1189	15127	17.382	24.499	84.284	84.284
DN	DN	ATF1_1	cluster_5	Common_1_DN	9434	8055.656	79977	81095	336.0038	1.1774	0.2356	0.001	0.001	29706	527830	81.133	5889	100815	15.493	5487	9434	14.373	17.968	93.1737	93.1737
DN	DN	ATF5_1	cluster_5	Common_1_DN	35447	30110.212	29736	30564	243.7473	1.1772	0.2354	0.001	0.0010435	7884	142057	75.135	3443	41328	21.859	35447	28608	35.427	36.008	84.198	84.198
DN	DN	TBK1_1	cluster_5	Common_1_DN	29622	25161.574	24924	25401	140.7921	1.1773	0.2354	0.001	0.0010435	16002	113186	74.769	4930	33931	22.614	4025	29622	19.748	26.745	86.518	87.3007
DN	HRF know14	cluster_5	Common_1_DN	78308	66561.618	65932	67189	367.5286	1.1765	0.2345	0.001	0.001	16594	342215	77.672	4939	20244	23.44	3956	78308	22.927	22.927	86.1211	86.1211	
DN	SP8	CTCF know2	cluster_1	SP8	20320	17274.81	16706	17879	331.4189	1.1763	0.2342	0.001	0.0010435	18003	245455	80.429	8880	50565	6.8167	1271	20320	12.419	8.028	93.278	93.278
DN	HRF know4	cluster_3	DN	20122	17112.202	16847	17360	158.0488	1.1759	0.2337	0.001	0.001	15011	141182	80.298	1578	21515	12.237	1467	20122	14.525	15.255	93.524	93.524	
DN	MAD3_3	cluster_3	Common_1_DN	27402	23111.517	23006	23683	207.9859	1.1754	0.2332	0.001	0.0010909	6415	105647	77.12	1827	21521	7.908	5090	27402	5.1264	5.8946	86.844	86.844	
DN	DN	TBK2_1	cluster_5	Common_1_DN	4434	3705.964	37299	38128	254.6288	1.1752	0.233	0.001	0.0010909	8903	170122	76.154	2786	50614	22.657	2390	4434	26.937	26.937	85.781	85.781
DN	HRFD1_1	cluster_5	Common_1_DN	18914	16128.113	15899	16130	137.792	1.1734	0.2314	0.001	0.0010909	5946	77508	76.405	1743	21717	21.408	5300	18914	18.664	25.275	86.206	86.206	
DN	DN	SPB_1	cluster_5	Common_1_DN	3513	2986.4	2794	3031	245.3041	1.1731	0.2312	0.001	0.001	2211	3328	17.37	1625	1719	10.88	3513	3513	1.071	1.071	85.299	85.299
DN	DN	HRF1_1	cluster_5	Common_1_DN	26011	17576.28	17852	17812	137.5842	1.1726	0.2297	0.001	0.0010435	15999	153110	79.913	23562	21180	16.695	18603	26011	10.517	13.4609	92.727	92.727
DN	DN	TBK3_3	cluster_5	Common_1_DN	48212	41272.06	40828	41485	204.9063	1.1722	0.2293	0.001	0.001	20740	188864	74.435	6304	52260	22.582	5463	48212	19.462	25.28	86.275	87.2439
DN	HRF know1	cluster_5	Common_1_DN	8041	6953	6981	786	24.6213	1.1721	0.229	0.001	0.0010435	1805	1817	7.309	866	124	8.926	124	8041	9.851	10.961	86.438	86.438	
DN	FOXM1_1	cluster_5	Common_1_DN	13465	11491.829	11328	11665	106.2206	1.1717	0.2286	0.001	0.0010909	6703	52629	74.145	2009	15722	22.15	13465	13465	25.981	25.981	85.448	85.448	
DN	DKP2_1	cluster_5	Common_1_DN	12206	10483.865	10252	10589	101.0076	1.1717	0.2277	0.001	0.0010435	4574	47046	75.256	1427	12626	20.797	1262	12206	20.374	22.998	88.373	88.373	
DN	DN	RUND2_2	cluster_5	Common_1_DN	5599	4792.739	4598	48959	157.9607	1.1706	0.227	0.001	0.0010435	15873	109351	63.234	6037	65911	14.219	5911	5599	16.418	16.418	85.158	85.158
DN	DN	RUND3_1	cluster_5	Common_1_DN	88138	74505.572	74939	75906	299.8735	1.1689	0.2252	0.001	0.0010435	29591	380873	82.383	6177	92639	19.172	9856	88138	18.253	22.566	94.803	94.803
DN	DN	HRF1A1BNT1_1	cluster_5	Common_1_DN	13136	11246.143	11233	11388	82.9753	1.168	0.2241	0.001	0.001	12592	90566	80.589	1969	14045	12.498	1835	13136	15.543	14.5727	84.504	84.504
DN	DN	HRF know3	cluster_5	Common_1_DN	103549	88969	88969	87524	314.466	1.1677	0.2236	0.001	0.0010435	103549	88969	87524	314.466	1.1677	0.2236	103549	88969	87524	314.466	1.1677	0.2236
DN	DN	HRF know6	cluster_5	Common_1_DN	7600	6683.098	6510	6876	111.441	1.1671	0.2229	0.001	0.0010435	2646	34813	80.496	551	8698	20.112	485	7600	18.036	22.4054	88.028	88.028
DN	DN	EFV know2	cluster_5	Common_1_DN	7399	23484.912	23100	23838	206.7865	1.1667	0.2224	0.001	0.001	12306	197388	80.739	1895	29430	10.238	1750	7399	11.207	13.808	93.089	93.089
DN	DN	ATF7_1	cluster_5	Common_1_DN	22925	20489.092	20473	21347	194.3382	1.1665	0.2223	0.001	0.0010909	6066	128410	79.943	1853	32944	20.51	1622	22925	17.879	24.657	88.486	88.486
DN	DN	TBK1_4	cluster_5	Common_1_DN	52045	44842.416	44705	45435	328.6655	1.1651	0.2204	0.001	0.0010909	11607	211988	72.371	3509	43588	21.639	2830	52045	18.484	26.527	86.748	86.748
DN	DN	MAD3_2	cluster_5	Common_1_DN	77142	66529.715	65974	67048	235.0275	1.1648	0.2201	0.001	0.0010909	67145	66007	71.127	2075	27165	24.814	6075	77142	16.549	22.604	85.632	85.632
DN	DN	ESR1 know2	cluster_3	DN	45758	39287.3	38884	39638	219.8804	1.1647	0.22	0.001	0.001	30718	440077	82.227	3712	48541	8.988	3488	45758	16.977	10.6114	94.007	94.007</

DN	AT6_1	cluster_6	Common_2	14979	13883.714	12335	19328	86.7036	11192	0.0265	0.001	0.0000435	5416	31617	78.316	2634	18311	42.461	2145	14979	34.735	47.978	81.4531	81.9033		
DN	AKS1_1	cluster_5	Common_1_CN	4212	1876.812	16266	14780	22.8572	11048	0.1437	0.001	0.0002163	4560	12621	83.261	6166	22065	41.278	23255	4212	50.896	41.739	82.0876	81.7598		
DN	MWB1_3	cluster_5	Common_1_CN	4782	4280.378	4162	4404	74.4057	11172	0.1598	0.001	0.0001909	1868	20588	37.661	5182	21192	45.723	18233	4782	23.271	18.038	83.1333	81.3333		
DN	NFWA1_3	cluster_5	Common_1_CN	1293	11571.696	11380	11791	122.5043	11159	0.1862	0.001	0.0000909	4137	53815	78.338	1322	15103	22.266	1408	1293	13.027	25.006	84.2532	85.4996		
DN	MF0F_1	cluster_6	Common_1_CN	4600	1898.418	14923	20953	265.7447	11147	0.0566	0.001	0.0004627	1890	22384	47.942	9168	46024	35.072	11669	4600	31.702	25.302	81.7887	81.8087		
DN	PODF2_known12	cluster_6	Common_2	16585	14882.371	14685	15092	122.0183	11144	0.1562	0.001	0.0000435	5446	54541	74.724	2101	20388	48.293	16858	16585	37.103	31.032	80.4083	81.3469		
DN	EK4_1	cluster_3	DN	8113	7300.138	7202	7415	65.04	11141	0.1558	0.001	0.001	11601	93425	84.428	1007	8679	7.8423	1030	8113	73.798	8.8182	81.7004	81.7600		
DN	FTV1_11L1	cluster_6	Common_2	2281	2051.47	2051	2052	220.5811	11133	0.1727	0.001	0.0000175	2282	2282	22.82	2282	2282	22.82	2282	2281	22.82	22.82	81.4433	81.4433		
SP4	PNNQ3_3	cluster_1	SP8	10173	9156.366	8913	5931	149.6853	11111	0.1519	0.001	0.0000435	10186	11804	52.742	1862	13762	8.2032	924	10173	4.748	9.0881	6.0023	56.1166		
SP4	RUNK_2	cluster_1	SP8	30372	2737.526	26800	27903	329.4996	11111	0.1519	0.001	0.0000435	18756	24049	50.895	5931	54123	10.414	2165	30372	5.844	11.5245	55.075	57.8801		
DN	RUNK_2	cluster_6	Common_2	2182	1964.288	1964	1965	196.4588	11109	0.1519	0.001	0.0000435	2182	20221	71.798	4748	4748	47.48	4748	2182	21.82	21.82	79.908	81.1922		
DN	FU1_1	cluster_6	Common_2	4414	4138.662	43014	43730	208.8218	11102	0.1508	0.001	0.001	8030	104443	74.283	458	58681	41.741	3711	4414	18.225	46.0672	81.4173	81.4173		
DN	MWB1_5	cluster_6	Common_1_CN	12776	11508.127	11313	11696	121.0431	11102	0.1508	0.001	0.0000435	3532	52784	82.002	933	14337	20.523	933	12776	22.3029	29.891	87.9957	88.9957		
DN	H4F_known1	cluster_6	Common_2	12934	11108.411	11568	11249	454.0421	11097	0.1502	0.001	0.0000435	15086	160411	75.209	4033	4033	40.33	8741	12934	25.6092	40.486	81.8925	81.8925		
DN	HF_known1	cluster_6	Common_2	4683	4179.824	4129	42196	241.392	11096	0.1501	0.001	0.001	3244	135663	76.665	9862	95647	31.587	3255	4683	26.328	34.818	42.1555	83.3522		
DN	GMEB2_2	cluster_6	Common_1_CN	9388	8465.149	8429	8644	105.9829	11091	0.1493	0.001	0.001	9315	42707	77.048	786	11140	20.098	715	9388	22.2935	18.883	82.1555	84.2729		
DN	FTV1_4	cluster_6	Common_2	25317	2284.117	22437	25312	251.4939	11077	0.1475	0.001	0.0000435	7018	70432	28.966	9620	95999	15.257	2527	25317	36.0704	35.9737	80.2867	80.2867		
DN	FU1_4	cluster_6	Common_2	52883	4780.869	46933	47731	223.2658	11074	0.1472	0.001	0.001	8592	111995	76.37	4842	62328	42.502	4039	52883	46.7226	48.0459	84.6144	84.6144		
DN	H4F_2	cluster_6	Common_2	39871	36306.322	35640	36359	220.6387	11073	0.1471	0.001	0.001	7984	113800	77.321	1385	47396	32.408	2812	39871	37.263	35.6272	81.0724	84.1231		
DN	KF21_1	cluster_6	Common_2	20585	18554.408	18442	18617	509.0152	11067	0.1466	0.001	0.001	24149	412504	71.718	14628	248273	45.967	11959	20585	37.145	49.4293	81.7542	82.6053		
DP	FTV4_2	cluster_2	DP	6158	5563.677	5347	5791	140.1134	11068	0.1464	0.001	0.0001429	6095	46084	26.755	2328	20847	11.103	687	6158	13.876	13.5751	13.8626	29.5139		
DN	NF8B_known1	cluster_6	Common_2	7046	6380.2143	62811	63783	277.3852	11065	0.146	0.001	0.001	14319	173964	76.588	7103	84966	36.889	5823	7046	40.2647	48.89	81.9794	82.8006		
DN	PODF2_known1	cluster_6	Common_1_CN	22112	19984.108	19723	20292	184.7106	11065	0.146	0.001	0.0000435	2055	73871	75.443	1510	27604	28.578	2257	22112	22.802	31.208	50.344	70.0745		
DN	FTV1_1	cluster_5	Common_1_CN	26081	23574.217	23281	23933	160.9966	11063	0.1458	0.001	0.0000435	8166	106558	76.616	3666	5770	22.768	2227	26081	19.333	25.809	68.5334	84.9101		
DN	EK4_2	cluster_6	Common_2	6544	62786.526	62323	63229	292.9357	11062	0.1456	0.001	0.001	30877	278376	62.701	11316	100730	22.607	7730	6544	15.644	25.048	64.396	69.198		
DN	EK4_2	cluster_6	Common_2	21103	28232.737	27688	28250	269.3021	11059	0.1462	0.001	0.0014249	21109	70878	26.176	11669	107446	39.782	2436	21103	11.519	43.8442	64.0066	78.2494		
DN	FTS_known17	cluster_6	Common_2	41823	43552.424	43182	43946	233.7453	11049	0.144	0.001	0.001	4341	108611	51.968	4437	58464	40.401	3715	41823	33.261	44.339	43.7027	82.3323		
DN	ETP7_1	cluster_6	Common_1_CN	19938	104074.209	103522	104760	388.251	11048	0.1438	0.001	0.001	15240	260380	75.574	8506	142333	40.275	6746	19938	44.1597	49.2039	81.7523	80.6711		
DN	FTV1_1	cluster_6	Common_2	16124	14076.812	14196	14780	22.8572	11048	0.1437	0.001	0.0000435	1499	24045	83.261	5499	23665	41.278	23255	16124	21.938	26.2755	82.2785	81.7598		
DN	FTV1_1	cluster_6	Common_2	2454	22203.545	21791	22569	229.0159	11041	0.1428	0.001	0.0000435	2500	46038	48.205	9308	8423	48.205	2708	2454	14.014	53.2024	53.2473	29.0933		
DN	GMEB2_2	cluster_6	Common_2	1989	17995.885	17792	19222	123.814	11041	0.1428	0.001	0.001	3215	47707	77.048	1808	23935	42.568	1511	1989	35.846	46.9984	84.5254	84.2085		
DN	EP8_1	cluster_6	Common_1_CN	232	1826.971	20871	21266	174.5611	11041	0.1428	0.001	0.001	232	1826.971	174.5611	232	1826.971	174.5611	232	232	1826.971	174.5611	232	1826.971		
DN	FTV1_1	cluster_2	DP	6208	5624.053	5401	5833	141.467	11038	0.1425	0.001	0.0000435	5186	46934	26.831	2553	14463	11.047	6319	6208	13.829	15.909	11.3227	29.4595		
DN	ERG_4	cluster_6	Common_2	46879	44458.378	43751	44460	214.3319	11036	0.1422	0.001	0.001	87373	109692	76.033	4544	5842	40.736	3756	46879	49.8779	44.8485	81.3508	81.3508		
DN	FTV1_1	cluster_6	Common_2	2390	21411	21101	22101	203.9233	11033	0.1422	0.001	0.001	2390	21411	203.9233	2390	21411	203.9233	2390	21411	203.9233	2390	21411	203.9233	2390	21411
DN	NB1_2	cluster_6	Common_2	30118	27295.567	26923	27657	230.0394	11034	0.1419	0.001	0.0000435	3121	74429	14470	36240	37.575	1217	30118	41.0709	40.4654	47.007	85.7073	81.9073		
DN	PODF2_known13	cluster_6	Common_2	20154	19546.609	19205	19876	211.2105	11027	0.141	0.001	0.001	1937	67338	78.35	1401	27261	30.707	1037	20154	22.278	33.8002	71.4654	78.1061		
DN	PODF2_known11	cluster_6	Common_2	16401	15286.317	15286	16401	152.8631	11027	0.141	0.001	0.0000435	16401	15286.317	152.8631	16401	15286.317	152.8631	16401	15286.317	152.8631	16401	15286.317	152.8631	16401	15286.317
DN	KF2_1	cluster_6	Common_2	68793	61900.907	61767	62103	345.3735	11022	0.1402	0.001	0.001	81419	113200	74.111	52413	84135	47.525	4232	68793	53.558	51.0095	52.0269	80.7471		
SP4	LMO7_1	cluster_1	SP8	1709	17889.43	17467	18123	248.359	11017	0.1397	0.001	0.001	35424	395160	47.238	3559	38297	4.781	1978	1709	18.978	10.789	50.2669	51.4609		
DN	KF2_1	cluster_6	Common_2	16027	15302.677	15069	16027	153.0267	11016	0.1397	0.001	0.001	16027	15302.677	153.0267	16027	15302.677	153.0267	16027	15302.677	153.0267	16027	15302.677	153.0267	16027	15302.677
DN	KF16_1	cluster_6	Common_2	48344	43963.532	43865	44692	607.7239	10996	0.137	0.001	0.001	87657	88098	74.479	48804	48344	37.375	49.8383	48344	49.3251	48.83	81.9556	81.9556		
DN	KF16_1	cluster_6	Common_2	49638	39174.516	39016	39250	499.0541	10994	0.1367	0.001	0.001	49638	39174.516	390.167	49638	39174.516	390.167	49638	39174.516	390.167	49638	39174.516	390.167	49638	39174.516
DN	PODF2_known15	cluster_6	Common_2	14601	12864.618	12864	14601	128.6463	10988	0.1411	0.001	0.001	14601	12864.618	128.6463	14601	12864.618	128.6463	14601	12864.618	128.6463	14601	12864.618	128.6463	14601	12864.618
SP4	FTV5_1	cluster_4	SP4	6152	5610.592	5493	5737	77.3118	10982	0.1382	0.001	0.0000435	1180	10540	73.515	857	7666	5.3464	804	6152	4.9675	5.9607	78.1133	80.5883		
DN	KF16_1	cluster_6	Common_2	10280	10250.801	10083	110679	590.5486	10975	0.1383	0.001	0.001	16591	24164	22.673	36453	489216	49.482	906	10280	13.166	10.280	74.3869	74.3869		
DN	PODF2_2	cluster_6	Common_2	1024	14076.812	14196	14780	22.8572	11048	0.1437	0.001	0.0000435	1499	24045												

SP4	FV7_1	cluster_1	SP8	20634	19608.386	19306	19933	182.6942	1.024	0.0737	0.001	0.001	27057	25126	56.588	3931	34860	7.8158	2298	20634	4.6475	8.2493	8.2313	58.4584	59.191	
DN	TKB1_2	cluster_2	Common_2	11441	11459.51	11400	11524	11405.1	0.000099	0.0001	0.001	0.001	3064	3069	13.9876	1358	13000	12.8767	732	11441	4.0626	8.8558	8.8568	57.8635	57.8635	
SP4	SPC_2	cluster_1	SP8	20979	19936.128	19659	20304	223.1985	1.0523	0.0735	0.001	0.001	18758	225108	60.689	8925	31138	8.934	2292	20979	5.6367	9.3195	9.3195	62.308	62.308	
DN	PAZ7_1	cluster_1	Common_1	22599	14060.649	21388	21560	567.763	1.0522	0.0735	0.001	0.001	85739	113364	76.273	23609	288137	19.562	19778	22599	10.5336	10.5336	10.5336	20.1078	20.1078	
DN	TKB2_5	cluster_5	Common_5	16200	16200.0	16200	16200	16200.0	0.0001	0.0001	0.001	0.001	16200	16200	16.2	16200	16200	16.2	16200	16200	16.2	16.2	16.2	20.1078	20.1078	
DN	FOW_5	cluster_6	Common_2	11886	11811.25	11259	11810	347.8308	1.0511	0.0719	0.001	0.001	37121	36128	75.797	19887	181545	31.745	12875	11886	24.927	11.886	11.886	32.8871	32.8871	
DN	TKB2_2	cluster_2	Common_2	39578	37657.559	37318	38139	287.3756	1.051	0.0718	0.001	0.001	37160	191386	74.304	29975	51847	29.821	20220	39578	31.074	31.074	31.074	74.7899	74.7899	
DN	TKB2_5	cluster_5	Common_5	71226	71226.0	71226	71226.0	71226.0	0.0001	0.0001	0.001	0.001	71226	71226	71.226	71226	71226	71.226	71226	71226	71.226	71.226	71.226	76.5227	76.5227	
DN	EG8_2	cluster_1	Common_1	146853	156979.393	156280	157193	453.2512	1.0508	0.0715	0.001	0.001	55529	908324	79.001	18078	20425	71.689	16462	146853	14.344	18.606	18.606	18.1562	18.1562	
DN	GKA know16	cluster_6	Common_2	33004	31500.186	30979	31977	294.9418	1.0506	0.0712	0.001	0.001	3676	128052	64.197	2227	2227	60.496	1622	33004	25.516	25.516	25.516	27.8334	27.8334	
DN	TKB_1	cluster_1	Common_1	541146	541146.0	541146	541146.0	541146.0	0.0001	0.0001	0.001	0.001	541146	541146	541.146	541146	541146	541.146	541146	541146	541.146	541.146	541.146	20.4278	20.4278	
DN	TKB_1	cluster_1	Common_2	33603	31483.102	31207	31727	149.9441	1.0503	0.0708	0.001	0.001	16232	111286	74.769	6158	42515	28.335	4756	33603	20.237	29.642	29.642	29.4752	29.4752	
DN	RUNK_2	cluster_5	Common_1	105280	100258.77	99986	100486	361.2158	1.0501	0.0705	0.001	0.001	28030	397766	76.459	9707	113268	25.508	9783	105280	20.528	26.982	26.982	26.4945	26.4945	
DN	MAF_1	cluster_1	Common_1	11458	11458.0	11458	11458.0	11458.0	0.0001	0.0001	0.001	0.001	11458	11458	11.458	11458	11458	11.458	11458	11458	11.458	11.458	11.458	61.8308	61.8308	
DN	RUNK_2	cluster_6	Common_2	113182	125441.67	124077	127961	334.1979	1.049	0.0691	0.001	0.001	23175	342168	83.028	10116	125450	36.993	8643	113182	31.88	38.479	38.479	85.4389	85.4389	
SP4	TKB_4	cluster_4	SP8	17000	16205.12	15772	16625	264.4627	1.049	0.0691	0.001	0.001	30093	170054	58.182	1543	28290	49.621	8043	17000	50.621	10.3111	10.3111	60.0919	60.0919	
DN	RW_2	cluster_2	Common_2	49448	42655.774	42533	42781	186.3093	1.0488	0.0688	0.001	0.001	18689	138444	77.101	9759	16386	31.334	44648	49448	24.978	32.966	32.966	78.528	78.528	
DN	MSF_1	cluster_6	Common_2	75194	71704.506	71312	72042	220.3915	1.0487	0.0685	0.001	0.001	27113	217711	79.439	11645	95133	33.399	9493	75194	27.437	34.884	34.884	82.146	82.146	
SP4	SPB_1	cluster_1	SP8	9911	9471.102	9382	9659	117.0977	1.0486	0.0684	0.001	0.001	18313	108822	58.346	2742	16291	1663	9911	53.246	9.1901	9.1901	9.1259	60.692	60.692	
DN	TKB2_2	cluster_2	Common_2	42464	40999.315	40236	40762	164.8571	1.0485	0.0683	0.001	0.001	20065	143770	74.719	7932	54774	28.506	42464	42464	22.1	25.976	25.976	72.0208	72.0208	
DN	TKB2_2	cluster_2	Common_2	9810	9359.529	9129	9577	131.9926	1.0481	0.0678	0.001	0.001	3731	38267	69.358	1053	13999	25.373	720	9810	17.78	26.364	26.364	67.361	67.361	
DN	TKB2_4	cluster_4	Common_2	41352	39459.681	39014	39891	257.3315	1.048	0.0676	0.001	0.001	9894	148765	73.27	3809	50574	27.125	2807	41352	23.769	28.707	28.707	79.6399	79.6399	
DN	MSM2_2	cluster_2	Common_1	88389	84562.216	83647	84826	294.9888	1.0477	0.0673	0.001	0.001	28215	291899	72.323	11522	119795	29.247	88389	88389	22.209	30.262	30.262	85.4094	85.4094	
DN	HEK1_2	cluster_6	Common_2	4827	4606.497	4488	4734	76.2128	1.0479	0.0674	0.001	0.001	1143	16019	80.489	451	5980	40.477	356	4827	24.594	31.461	31.461	78.9337	78.9337	
DN	PKN0V_1	cluster_6	Common_2	68262	65148.446	64608	65676	328.1873	1.0478	0.0674	0.001	0.001	15318	238880	74.405	6051	88894	28.648	4581	68262	21.299	29.906	29.906	76.7065	76.7065	
DN	RUNK_2	cluster_6	Common_2	76588	73460.065	72957	73886	270.8222	1.0476	0.0671	0.001	0.001	22375	342168	83.028	6052	89641	31.622	76588	76588	21.922	22.995	22.995	84.6993	84.6993	
SP4	TKB_1	cluster_1	SP8	8090	7726.409	7548	7909	112.2549	1.0471	0.0663	0.001	0.001	13005	83358	55.556	2026	13954	9.2999	2026	8090	5.9318	9.7774	9.7774	57.4531	57.4531	
DN	POUZ7 know16	cluster_6	Common_2	42644	40722.711	40485	40962	145.5611	1.0467	0.0658	0.001	0.001	24004	38949	69.778	6069	10413	46.42	42644	42644	22.1	25.976	25.976	72.0208	72.0208	
DN	FOXP3_1	cluster_6	Common_2	49339	43261.911	42871	43743	271.5942	1.0464	0.0655	0.001	0.001	9666	159396	78.66	19994	64109	27.213	2881	49339	20.471	28.083	28.083	28.3482	28.3482	
DN	RUNK_1	cluster_5	Common_1	90358	86423.101	85923	86928	317.5744	1.0455	0.0642	0.001	0.001	25961	390773	82.383	7152	106249	21.989	6202	90358	18.17	23.182	23.182	62.089	62.089	
DN	TKF12 know1	cluster_2	Common_1	9031	89089.1	88981	89363	221.9702	1.0454	0.0642	0.001	0.001	16898	114477	70.818	16046	19117	12566	9031	9031	10.177	12.646	12.646	76.6123	76.6123	
SP8	TV12_1	cluster_4	SP4	9463	9054.735	8732	9333	194.4224	1.0451	0.0636	0.015	0.0436	9151	82658	64.674	23.229	4640	40744	11.006	1053	9463	2.563	23.066	23.066	13.0464	13.0464
DN	SPD_0	cluster_6	Common_2	6776	6486.178	6391	6585	58.1311	1.0448	0.0633	0.001	0.001	1107	14404	85.672	620	7821	46.518	351	6776	40.402	45.805	45.805	63.2775	63.2775	
DN	HEK1_2	cluster_6	Common_2	31827	31827.0	31827	31827.0	31827.0	0.0001	0.0001	0.001	0.001	31827	31827	31.827	31827	31827	31.827	31827	31827	31.827	31.827	31.827	68.4389	68.4389	
DN	TKF12 know1	cluster_6	Common_2	11808	10707.766	106659	10752	269.8062	1.0442	0.0634	0.001	0.001	4834	35276	75.728	19920	142178	30.538	1580	11808	24.015	31.717	31.717	78.129	78.129	
SP4	RUNK_1	cluster_1	SP8	7926	7990.917	7799	7935	158.487	1.0441	0.0633	0.001	0.001	4747	71425	63.314	859	12459	11.044	527	7926	7.0259	11.5216	11.5216	61.3504	61.3504	
DN	RUNK_1	cluster_1	Common_1	29767	28790	28555	28928	185.5555	1.044	0.0632	0.001	0.001	29767	29767	29.767	29767	29767	29.767	29767	29767	29.767	29.767	29.767	61.3504	61.3504	
DN	RUNK_1	cluster_6	Common_2	9156	8775.296	8612	8915	94.6076	1.0434	0.0633	0.001	0.001	3088	43261	73.637	1246	1246	10.205	9156	9156	24.576	24.576	24.576	74.3981	74.3981	
DN	HEK1_1	cluster_5	Common_1	10039	9388.952	9343	9649	360.2915	1.0431	0.0629	0.001	0.001	30958	438366	78.548	901	123465	21.162	737	10039	17.925	23.766	23.766	71.1244	71.1244	
DN	TKF1 know13	cluster_1	Common_2	4121	4121.0	4121	4121.0	4121.0	0.0001	0.0001	0.001	0.001	4121	4121	4.121	4121	4121	4.121	4121	4121	4.121	4.121	4.121	74.0206	74.0206	
DN	GKA know17	cluster_6	Common_2	20680	19828.252	19350	20126	183.9604	1.043	0.0627	0.001	0.001	5009	80296	75.449	1780	21704	25.488	1326	20680	18.679	26.880	26.880	64.494	64.494	
SP8	TKB_3	cluster_4	SP4	14428	13701.091	13																				

SP4	TCF7L1_2	cluster_1	SP8	16019	11728.76	15410	10666	200.8045	1.0185	0.0264	0.069	0.069	0.069	23772	140996	61.647	2407	25849	11.342	1466	36019	17.028	115415	11.4017	60.957	61.9714
DN	HP1_1	cluster_1	SP8	4612	8355.076	47127	18757	126.3671	1.0381	0.0362	0.137	0.247	0.332	1372	12298	1932	207	4768	2.077	4758	16610	7.568	15828	7.568	67.2304	67.2304
DN	MF1_1	cluster_5	Common_1_DN	86005	84551.504	83846	85245	400.7072	1.0172	0.0246	0.001	0.001	0.001	24149	415074	51.178	114929	20.701	11.893	48605	15.577	88071	10.571	75.158	75.158	
DN	TCF7L1_1	cluster_5	Common_2_DN	49871	49300.647	48565	49482	276.0501	1.0171	0.0345	0.001	0.001	0.001	16797	218881	77.73	5010	26929	12.639	5814	80025	15.777	23.041	17.1257	78.2502	
DN	HMG20L_1	cluster_5	Common_2_DN	24429	24332.219	24185	24593	118.9789	1.0167	0.0247	0.001	0.001	0.001	30602	36262	61.1	30602	2465	1862	2465	5.922	8064	2.927	10.8045	10.8045	
SP8	TK15L_2	cluster_4	SP4	9553	9787.845	9594	10029	133.2958	1.0169	0.0241	0.104	0.104	0.104	14966	160782	54.532	8037	51820	11.4475	5480	9953	5.189	9.555	4.9888	54.8284	54.8284
DN	RUNX3_3	cluster_5	Common_1_DN	111633	109551.634	109891	109995	370.112	1.0166	0.0237	0.001	0.001	0.001	27906	57380	81.113	26022	136756	21.016	6396	111163	17.093	21.331	21.0604	81.2856	
SP8	SNX6_1	cluster_4	SP4	8026	8026.0166	8026	8026	172.3505	1.0164	0.0234	0.001	0.001	0.001	10737	127.3505	60.606	975	9666	6.9719	6604	8026	6.7129	6.7129	6.7129	60.606	60.606
DN	TCF4_1	cluster_6	Common_2_DN	106196	104503.666	104047	105060	292.0062	1.0162	0.0229	0.001	0.001	0.001	45135	409696	61.1	15507	138006	25.673	11815	106196	10.756	26.015	25.9207	76.1814	76.1814
SP4	TBK1_2	cluster_1	SP8	9182	9037.398	8729	9306	174.8218	1.0162	0.031	0.088	0.0661	0.499	8994	97636	57.636	993	12006	10.262	5231	9182	5.871	10.4099	10.4099	58.844	57.3603
DN	TCF7_1	cluster_2	Common_1_DN	171166	169918.63	166161	17196	381.9763	1.0158	0.0226	0.085	0.085	0.085	20683	269039	60.226	20683	45459	17.662	17166	17166	10.577	13.8965	13.8965	67.185	67.185
SP4	SNX12_1	cluster_1	SP8	4804	4818.095	4631	5002	120.6803	1.0158	0.0225	0.233	0.233	0.233	3166	41308	65.459	625	7670	11.154	388	4804	5.753	12.2562	11.8476	62.08	62.08
SP8	SNX1_4	cluster_4	SP4	5000	5046.735	5216	5426	126.0741	1.0154	0.022	0.239	0.249	0.249	3600	37246	58.82	725	1491	14.988	405	5000	4.858	10.568	10.568	55.821	57.8407
DN	TBK1_1	cluster_5	Common_1_DN	6721	6721.101	6721	6726	164.0822	1.0151	0.0215	0.092	0.092	0.092	7083	74925	60.231	692	692	22.708	692	6721	5.945	6.729	6.729	67.26	67.26
DN	SP1_1	cluster_5	Common_1_DN	294249	290861.623	288888	291166	664.7811	1.0144	0.0206	0.001	0.001	0.001	90889	1624641	78.36	23652	380416	18.349	17214	294249	13.993	18.9196	18.1125	75.993	77.3493
SP4	FOPX1_2	cluster_1	SP8	3313	3265.94	3164	3382	61.7012	1.0144	0.0206	0.243	0.243	0.243	4027	28734	62.407	895	5284	15.627	358	3313	5.798	11.7772	11.7772	62.6987	62.6987
SP4	POU2F1_known5	cluster_1	SP8	5411	5335.619	5311	5411	15564	1.0142	0.0204	0.271	0.271	0.271	3860	50256	61.466	790	8982	10.766	431	5411	6.818	11.6568	10.7669	59.041	60.2427
SP4	FOPX1_1	cluster_1	SP8	1528	12554.445	12005	12693	207.4968	1.014	0.0201	0.212	0.212	0.212	7881	128134	58.254	1425	21824	9.6336	792	1528	6.5666	9.7732	9.7732	55.5789	57.4047
SP4	ITV6_2	cluster_1	SP8	6348	6260.376	5995	6578	164.8899	1.014	0.02	0.263	0.263	0.263	10041	96008	24.501	2282	25678	6.9365	707	6348	1.7148	7.0411	6.9991	24.5316	24.5316
DN	FOPX1_1	cluster_1	SP8	29992	29626.642	29053	30176	337.8365	1.0123	0.0177	0.129	0.129	0.129	40562	628094	51.735	4255	58143	4.7023	2241	29992	2.4256	4.7322	4.6885	50.2173	50.2173
DN	FOPX1_1	cluster_1	SP8	3832	3781.512	3653	3913	82.546	1.0123	0.019	0.281	0.281	0.281	5181	41487	58.448	835	6541	9.3151	481	3832	3.7998	5.2339	5.2366	57.6048	58.5843
DN	FOPX1_2	cluster_1	SP8	38092	37597.864	37424	38014	230.1261	1.0121	0.0188	0.018	0.018	0.018	13787	153514	71.649	4884	53142	24.803	3465	38092	13.799	29.1224	29.1224	70.9459	71.9797
DN	TCF7L1_1	cluster_2	SP8	21360	21083.200	20659	21527	297.8895	1.0121	0.0188	0.161	0.161	0.161	10756	172842	61.696	2221	24617	12.257	1343	21360	7.6144	12.4837	12.4837	60.4683	61.7038
DN	SNX1_1	cluster_1	SP8	7042	6951.783	6734	7163	142.2253	1.0121	0.0186	0.274	0.274	0.274	3372	57193	62.928	758	11442	12.889	453	7042	7.7482	10.4282	11.3127	59.765	61.5452
DN	SNX3_1	cluster_1	SP8	5935	5859.448	5608	6007	137.6077	1.0129	0.0185	0.301	0.301	0.301	3663	54981	62.433	686	9659	11.092	404	5935	6.7394	11.092	10.7946	58.8921	61.4453
DN	TCF4_1	cluster_2	SP8	29992	29626.642	29053	30176	337.8365	1.0123	0.0177	0.129	0.129	0.129	40562	628094	51.735	4255	58143	4.7023	2241	29992	2.4256	4.7322	4.6885	50.2173	50.2173
DN	HP1_1	cluster_5	Common_1_DN	16532	16184.995	16066	16699	160.9087	1.0121	0.0173	0.111	0.111	0.111	6101	79442	72.628	1030	22784	11.277	1682	16532	15.114	21.3777	20.8102	72.313	72.313
DN	MLF1_1	cluster_5	Common_1_DN	241303	238566.731	237323	23661	379.7795	1.0115	0.0165	0.001	0.001	0.001	81419	1312000	74.111	21519	328828	18.578	15488	241303	13.631	19.0226	18.392	73.707	73.707
DN	POU2F1_2	cluster_1	Common_2_DN	36910	36565.642	36128	36885	233.8313	1.0111	0.0159	0.039	0.039	0.039	13772	152988	67.237	10072	12476	10.2072	64	36910	24.263	24.4627	24.4627	61.5263	61.5263
SP4	SNX12_1	cluster_1	SP8	2099	1998.114	19651	2034	213.91	1.0106	0.0152	0.118	0.118	0.118	22890	227820	57.244	3462	35177	8.8389	1961	2099	1.8813	6.8645	6.8645	56.6436	57.4097
SP4	SNX1_2	cluster_1	SP8	6099	6035.174	5851	6294	120.8415	1.0106	0.0152	0.282	0.282	0.282	3986	54587	64.334	711	9670	11.397	647	6099	7.188	11.4733	11.4733	61.1491	61.0714
DN	ITV1_1	cluster_1	SP8	9771	9697	9488	9908	201.7515	1.0104	0.015	0.247	0.247	0.247	4806	57927	59.247	804	9322	10.259	5182	9771	6.428	19.215	19.215	59.355	60.792
DN	HP1A_1	cluster_5	Common_1_DN	29326	29024.284	28753	29388	173.759	1.0104	0.0149	0.035	0.035	0.035	13199	153110	63.836	3666	36446	19.128	2630	29326	11.605	15.1535	15.1535	78.8309	80.0027
DN	SNX1_2	cluster_1	SP8	5363	5310.375	5077	5528	128.8114	1.0099	0.0142	0.588	0.57857	0.57857	1418	47711	59.739	381	5363	14.438	381	5363	6.9293	11.4094	11.203	56.9971	58.5027
SP8	SNX1_1	cluster_1	SP4	4278	4278.0004	4278	4288	242.5464	1.0097	0.0142	0.001	0.001	0.001	4428	47800	59.428	4428	47800	19.729	4780	4278	4.2799	4.2799	4.2799	24.529	24.529
SP8	SNX1_4	cluster_4	SP4	4815	4770.812	4568	4962	119.6475	1.0093	0.0132	0.332	0.332	0.332	2193	30727	56.692	676	8954	16.279	357	4815	8.2721	16.703	15.7278	63.3008	63.3008
DN	ITV1_1	cluster_5	Common_1_DN	6478	6418.995	6157	6697	164.7429	1.0092	0.0132	0.342	0.342	0.342	4257	38576	26.904	2099	24074	16.729	726	6478	4.5179	17.043	16.928	58.899	58.899
DN	POU2F1_known14	cluster_1	SP8	2345	2345.0004	2345	2345	1157	1.0092	0.0132	0.436	0.436	0.436	1622	2149	58.383	1622	2149	14.899	583	2345	13.3883	15.257	15.257	59.277	59.277
SP4	SNX6_6	cluster_1	SP8	7550	7483.584	7276	7736	138.7762	1.0089	0.0127	0.305	0.305	0.305	4528	68048	61.63	510	7508	11.281	511	7550	8.3863	11.0951	11.0951	58.6682	60.6134
SP4	MG4_3	cluster_1	SP8	7555	7495.589	7276	7804	167.7819	1.0079	0.0124	0.325	0.325	0.325	5104	86900	61.334	870	12400	8.7519	449	7555	5.3323	8.797	8.6939	59.0789	60.9274
DN	RUNX3_1	cluster_1	Common_2_DN	95809	95809.0004	95809	95924	379.3819	1.0089	0.0122	0.001	0.001	0.001	10756	172842	61.696	2221	24617	12.257	1343	95809	12.4837	12.4837	12.4837	60.4683	60.4683
SP8	FOPX3_4	cluster_4	SP4	3960	3928.762	3763	4106	100.8485	1.0077	0.0111	0.383	0.383	0.383	3303	24809	59.374	546	6810	16.288	308	3960	5.4726	9.1335	9.1335	58.4103	58.1488
SP4	GATA_known16	cluster_1	SP8	9859	9792.639	9452	10128	210.7211	1.0068	0.0097	0.389	0.389	0.389	5122	107965	62.558	622	16189	9.3751	478	9859	5.773	16.188	15.5809	60.9333	60.9333
DN	FOPX3_1	cluster_1	SP8	5218	5218.0004	5218	5218	1249	1.0068	0.0096	0.408	0.408	0.408	679	1036	62.558	679	1036	18.2476	679	5218	3.7367	5.2107	5.2107	59.277	59.277
SP4	POU2F1_known11	cluster_1	SP8	8068	8036.619	4888	5190	90.5155	1.0062	0.009																

SPA	ATF3_1	cluster_1	SPB	4959	5091391	4895	5286	119478	0.9739	0.0382	0.143	0.143	3889	51908	59467	688	8653	9428	387	4959	56983	97017	51534	5625	57306
SPA	FOXO3_1	cluster_2	SPB	4052	4338563	4254	4124	132479	0.9588	0.0447	0.004	0.004	3643	3888	46027	798	8173	5228	513	4052	43432	50432	50432	50432	50432
SPA	NM1L_1	cluster_4	SPB	11566	11878447	11522	12243	2223071	0.9737	0.0385	0.080	0.09287	3666	50783	60786	1311	20131	12533	4322	11566	12705	12379	11822	12379	55482
SPA	SOX1_1	cluster_4	SPB	7464	7648591	7383	7982	1462217	0.9733	0.0391	0.078	0.081391	5066	51361	60532	979	13014	15338	544	7464	87731	148931	544	44935	55566
SPA	ME1_1	cluster_4	SPB	8009	8561142	7968	8299	1447482	0.9732	0.0402	0.054	0.054	3063	46012	55684	109	18064	18064	90	8009	9862	10624	90	8463	57437
SPA	HEST_1	cluster_1	SPB	5338	5475697	5375	5665	1185068	0.9731	0.0394	0.121	0.121	917	107540	60702	845	9092	51321	489	5338	60075	90201	49544	57858	57858
SPA	POU2F2_known10	cluster_1	SPB	4559	4688395	4570	4629	817887	0.9723	0.0405	0.06	0.06	5730	510	46258	6352	542	7508	10315	512	4559	58556	51023	50660	607219
SPA	IRAOX3_1	cluster_1	SPB	2958	305866	2971	3158	758566	0.9717	0.0412	0.116	0.116	370	453	5716	602	570	5716	331	2958	305866	305866	305866	305866	305866
SPA	SPB_2	cluster_4	SPB	24433	2956057	28760	29802	3019257	0.9717	0.0414	0.004	0.004	17442	25293	58734	411	52835	11103	24433	28633	70516	12609	12609	52843	53147
SPA	FOXO3_1	cluster_4	SPB	24476	25194403	24752	25658	2681091	0.9715	0.0417	0.004	0.004	21704	28200	58247	3425	43712	82973	1886	24476	49988	86498	1886	55267	559938
SPA	ATF1_1	cluster_4	SPB	5453	5525403	5398	5625	1221278	0.9715	0.0417	0.108	0.108	3053	46012	55612	871	11309	12366	5453	5453	54012	54012	54012	54012	54012
SPA	RUNO2_4	cluster_2	DP	2914	293967	2916	24069	2795821	0.9713	0.0403	0.008	0.008	15706	261045	63144	2540	37614	43172	2016	2914	25602	8778	15706	59485	601918
SPA	TCF3_1	cluster_4	SPB	2812	2951614	28463	29516	3305512	0.9711	0.0423	0.078	0.0463636	40409	45019	52106	467	10375	15673	1516	2812	2914	44706	43589	48228	49696
SPA	TCF12_known5	cluster_4	SPB	3021	3107449	30461	31499	3259808	0.9709	0.0423	0.008	0.008	10823	13781	56918	10028	19524	10289	16564	3021	3021	30808	174028	174028	174028
SPA	SPD10_1	cluster_4	SPB	482	1011472	480	1084	421722	0.9709	0.0426	0.276	0.276	956	12440	7399	115	1406	83626	77	482	4964	78039	482	66565	69445
DP	SOX1_1	cluster_5	Common_1_DN	4379	4510449	4295	4724	1310688	0.9709	0.0427	0.156	0.156	1600	25424	51067	667	9168	18409	298	4379	87506	176311	4379	47796	54348
SPA	MIR131	cluster_1	SPB	6718	6921433	6708	7144	1315471	0.9706	0.043	0.058	0.058	7076	7891	98439	1114	11983	8104	618	6718	4954	8737	15481	15478	56208
SPA	MATC1_3	cluster_4	SPB	3940	4059562	3891	4237	1072013	0.9706	0.0431	0.109	0.109	3018	39557	57876	587	7206	10488	311	3940	3898	13048	52038	54348	54348
SPA	MVC_known13	cluster_4	SPB	6992	7205664	6921	7466	1593803	0.9704	0.0434	0.104	0.104	9016	99281	15743	1221	13066	7361	642	6992	5928	71207	60426	52599	53229
SPA	TCF12_known11	cluster_4	SPB	14470	14916459	14687	15186	1650656	0.9701	0.0438	0.004	0.004	34002	24920	51035	4004	23906	69997	24470	14470	3108	58442	58602	50562	50562
SPA	MRE11_2	cluster_1	SPB	115042	11861317	117465	11952	7382954	0.9699	0.0441	0.001	0.001	51003	1245776	62597	8721	19558	9368	4845	115042	57806	94663	9368	9368	55556
SPA	KIF2L1_1	cluster_1	SPB	6781	6996254	6799	7195	12059901	0.9692	0.0461	0.046	0.046	8943	10635	1030	1030	11778	6781	8762	6484	6781	8762	53725	53725	57374
SPA	FREI1_1	cluster_1	SPB	7076	7850152	7058	79234	4715063	0.9689	0.0464	0.001	0.001	47985	81664	64416	7972	126253	10031	6039	7076	6039	9252	9368	57824	57824
SPA	FOXO3_4	cluster_1	SPB	3096	3186139	3064	3233	796048	0.9687	0.0459	0.112	0.112	6167	26245	44931	5251	12567	242	3096	7495	4905	12078	47566	58862	58862
SPA	POU2F2_known16	cluster_1	SPB	3646	3767443	3604	3949	1074238	0.9678	0.0473	0.136	0.136	2834	34887	58899	539	6610	10243	285	3646	62014	1082	10511	53875	55189
SPA	CTCF_known2	cluster_5	Common_1_DN	60455	6241714	61535	63241	5763088	0.9678	0.0473	0.001	0.001	15603	254255	30429	10021	205911	24643	3959	60455	72392	23796	23796	23796	23796
SPA	SOX1_3	cluster_1	SPB	4719	4878475	4672	5093	1239289	0.9673	0.0479	0.106	0.106	2116	3151	44155	5868	8638	13146	347	4719	47011	11024	10684	51706	51706
SPA	SOX1_5	cluster_1	SPB	3897	4019161	3854	4179	1017659	0.9671	0.0484	0.091	0.09857	3416	33940	61564	514	6773	12286	286	3897	79796	11877	51526	55276	57806
SPA	SPB_1	cluster_1	SPB	13466	13928213	13691	14144	1321479	0.9668	0.0487	0.004	0.004	1464	9858	52897	646	23493	12467	454	13466	13467	13467	13467	13467	13467
SPA	ETV6_1	cluster_1	SPB	22148	22915091	22512	23358	2544311	0.9665	0.0491	0.001	0.001	27140	39390	65257	2665	35529	58892	1564	22148	16708	56257	69747	72672	72672
SPA	KIF2L1_1	cluster_1	SPB	5195	5174936	5154	5580	126703	0.9665	0.0491	0.081	0.081	2681	39398	59129	817	9334	61918	448	5195	38058	6706	61226	58488	58488
SPA	FOXO3_1	cluster_1	SPB	3719	3970586	3738	3984	748233	0.9665	0.0491	0.132	0.132	6182	6182	6182	6182	6182	3719	6182	3719	6182	6182	6182	6182	6182
SPA	SOX13_1	cluster_1	SPB	3682	3812297	3628	3976	106747	0.9665	0.0502	0.094	0.098087	2170	32640	46541	2035	24643	10385	3682	3682	11843	11286	58105	59716	59716
SPA	PANDX1_1	cluster_4	SPB	17163	17791179	17369	18254	2618373	0.9647	0.0519	0.012	0.012	1091	16550	53151	2333	33888	1146	17163	17163	25857	10427	50721	50721	50721
SPA	ETV1_1	cluster_4	SPB	3044	3117448	3016	3114	3172448	0.9647	0.0519	0.014	0.014	2547	21798	30448	4689	6182	123296	13046	3044	3044	3044	3044	3044	3044
SPA	CUX1_9	cluster_1	SPB	1021	1058815	976	1144	571103	0.9643	0.0524	0.252	0.252	597	10099	69427	102	1619	10395	102	1021	10937	10528	9364	67147	63066
SPA	AHRD1_1	cluster_1	SPB	3503	3632737	3462	3806	1027815	0.9643	0.0525	0.076	0.076	2354	30979	61609	492	6089	12228	277	3503	47949	11482	3503	56308	5753
SPA	FREI11_MAFG_1	cluster_5	Common_1_DN	3897	3860378	3898	4075	1313905	0.9643	0.0525	0.048	0.048	1843	30969	51606	1843	23066	17372	3897	3897	3897	3897	3897	3897	3897
DN	SPB_1	cluster_5	Common_1_DN	4719	49325254	48421	49950	4740339	0.9641	0.0528	0.001	0.001	21179	267744	21027	20709	24789	1543	3987	47425	15823	10499	19255	24500	24500
SPA	MATC2_1	cluster_1	SPB	3215	3235434	3136	3345	59309	0.964	0.0529	0.028	0.029217	3308	35448	63511	517	5163	92504	538	3215	35882	8397	8798	60202	60202
SPA	PC_1	cluster_14	SPB	2957	29307022	2928	3040	5010984	0.964	0.0529	0.014	0.014	2979	40679	60329	2979	40679	40329	2957	2957	2957	2957	2957	2957	2957
SPA	SOX6_9	cluster_1	SPB	6139	6331267	6134	5794	1469551	0.9634	0.0537	0.074	0.074	2095	47951	62253	615	9226	19748	349	6139	6139	11628	5748	57607	57607
SPA	SOX3_3	cluster_4	SPB	5248	6383101	5312	6629	1484507	0.9631	0.0542	0.048	0.048	2899	43266	55738	791	11519	15349	938	5248	7914	14208	50062	51585	51585
SPA	ARHGAP3_1	cluster_5	Common_1_DN	7073	7331697	7071	7598	1523708	0.963	0.0546	0.033	0.044	4043	50037	68048	7073	7598	11302	7073	7073	7073	7073	7073	7073	7073
DN	ARHGAP3_1	cluster_5	Common_1_DN	5133	5523818	5397	5668	837991	0.9627	0.0548	0.012	0.012	2100	33394	80191	597	8063	16721	5133	5133	1277	16364	15925	75491	75491
SPA	MIR12_1	cluster_4	SPB	6376	6624722	6411	6838	1366695	0.9625	0.0552	0.037	0.038609	4547	59233	5839	397	11641	11475	939	6376	6272	11033	10763	53465	53465
SPA	RUNO2_2	cluster_4	SPB	13466	13928213	13691	14144	1321479	0.9625	0.0554	0.004	0.004	1464	9858	52897	646	23493	12467	454	13466	13467	13467	13467	13467	13467
SPA	MIR12_2	cluster_1	SPB	1596	16588101	1557	1678	623887	0.9622	0.0556	0.184	0.184	1176	2553	6654	106	1556	71267	114	1596	6798	6752	61293	61293	61293
SPA	SPB_1	known1	cluster_4	SPB	30968	31903207	31323	32728	2318981	0.9622	0.0556	0.001	0.001	35122	247084										

SPR	FDK06_3	cluster_4	SP4	23335	23787522	23361	24219	2628822	0.9899	0.0001	0.00014249	22108	289208	59.065	3237	40099	8.549	1733	23335	4.5615	7.8888	7.7228	55.5372	54.9688	
SPR	FDK07_1	cluster_4	SP4	95015	10295319	95015	10423	1540583	0.9994	0.0001	0.00010418	20000	20000	124.865	13131	30495	24.464	7720	95015	8.7090	15.9337	14.5464	51.5566	51.0571	
SP4	FDK06_1	cluster_1	SP8	3770	4018.758	3851	4212	108.5657	0.9881	0.0002	0.0123522	2388	35069	61.166	544	6763	11.796	3470	3770	6.5791	11.0941	10.7502	54.9556	54.7445	
SP4	HR4_1	cluster_1	SP8	4460	4754.704	4851	4924	99.3406	0.9858	0.0003	0.01000435	2087	46509	68.576	513	7035	10.373	319	4460	6.5791	11.0941	10.7502	61.1832	61.3973	
SP4	TATL know1	cluster_1	SP8	4400	4607.588	4940	10042	290.9056	0.9982	0.0001	0.00010418	2087	46509	68.576	513	7035	10.373	319	4400	6.5791	11.0941	10.7502	61.1832	61.3973	
SP8	SOX1_1	cluster_4	SP4	6896	6285.83	6057	6341	134.2138	0.9804	0.0001	0.00010435	2069	38740	61.39	989	10644	16.867	546	6896	4.8316	15.6955	15.3591	53.6249	53.6249	
SP4	MWCV_1	cluster_1	SP8	5134	6792.954	6154	6921	122.403	0.9878	0.0001	0.00010435	2069	38740	61.39	989	10644	16.867	546	5134	3.3102	15.5518	15.3591	57.5727	58.7786	
SP8	TCFL_1	cluster_4	SP4	5575	6942.838	6217	6519	135.8103	0.9937	0.0001	0.00010435	2100	41000	71.076	1040	11360	19.573	656	5575	3.3102	15.5518	15.3591	57.5727	58.7786	
SP8	G4A know16	cluster_4	SP4	15529	16666.68	16044	17018	290.1089	0.9734	0.0001	0.00010435	4509	95037	55.067	1561	19059	17.679	15239	15529	6.8979	16.7443	16.34	46.364	50.1599	
SP4	TCF3_2	cluster_2	DP	56204	60022.568	59113	60799	494.811	0.9865	0.0006	0.01000435	23468	354235	46.199	2900	100066	17.041	3727	56204	7.2382	15.8812	15.6623	42.4005	43.0036	
SP4	TCF3_1	cluster_2	DP	5441	5668.713	5441	5991	137.3178	0.9988	0.004	0.00017176	541	1179	50.831	319	3817	10.373	319	5441	6.4425	12.9776	12.6061	48.4662	49.0661	
SP8	GEM1_1	cluster_2	DP	9287	9924.824	9665	10164	166.8655	0.9857	0.0008	0.01000435	6106	95511	72.498	862	13770	10.012	572	9287	6.7029	19.3878	19.3826	66.3753	67.4437	
SP4	EFZ_1	cluster_1	SP8	6469	6913.741	7005	7047	122.0032	0.9899	0.0001	0.00010435	6106	95511	72.498	862	13770	10.012	572	6469	5.0724	15.6999	15.6999	57.3077	58.7611	
SP4	HRP1_4	cluster_4	SP4	451	4829.166	4075	1042	114.4446	0.9895	0.0002	0.01000435	5136	6843	76.015	438	4933	11.68	438	451	4.1805	11.68	11.68	61.0103	61.0103	
SP8	SPZ_2	cluster_4	SP4	1914	12735.539	12445	13025	183.229	0.9855	0.0002	0.01000435	18901	139218	56.236	239	2828	19.3826	1202	1914	4.8143	16.631	16.631	53.3895	52.2177	
DN	LMQ2_1	cluster_5	Common_1DN	60186	64174.745	63665	65111	456.0311	0.9849	0.0091	0.01	23943	252436	30.177	19801	212626	25.733	5528	60186	7.2382	20.8422	21.3821	27.9728	27.9728	
SP4	RUN3_5	cluster_1	SP8	20978	22480.705	21978	22900	287.3042	0.9949	0.0091	0.01	21450	30525	60.24	2360	37691	7.4537	2328	20978	4.486	14.6572	14.6572	54.5575	54.5575	
SP4	BATL know1	cluster_1	SP8	4482	4794.203	4610	4980	116.4169	0.9848	0.0093	0.008	3974	51803	89.832	638	8084	9.3869	347	4482	5.1767	11.7618	11.7618	64.3827	64.3827	
SP8	CUK2_2	cluster_1	SP8	429	459.339	418	499	24.1994	0.9841	0.0984	0.117	0.12209	387	3483	7.18	79	675	11.915	50	429	8.8435	12.9199	12.317	63.2911	63.5556
SP8	FLK3_2	cluster_4	SP4	7124	7871.564	7354	7884	156.2913	0.9839	0.0086	0.01	0.00010435	3586	54118	58.145	940	12460	14.474	843	7124	7.5541	13.4669	13.1638	51.383	51.383
SP8	FLK3_1	cluster_4	SP4	4441	4755.901	4510	4988	143.3778	0.9838	0.0088	0.012	0.013091	5170	51370	24.226	2188	19577	6.8615	484	4441	2.1121	10.3107	9.8126	22.475	22.6468
SP8	HR4_1	cluster_4	SP4	4988	5342.95	5152	5620	111.5512	0.9836	0.0092	0.01	0.00010435	3749	45692	67.371	591	8045	11.862	387	4988	7.3347	10.9888	10.9166	60.4061	62.0012
SP8	SMAQ3_1	cluster_4	SP4	16877	18065.011	17629	18420	176.6859	0.9832	0.0098	0.01	0.00010435	19558	16567	56.247	964	12413	11.02	10877	16877	5.738	12.0265	10.1089	51.0286	51.0286
SP8	MCF1_1	cluster_4	SP4	7190	7705.643	7074	7945	142.3911	0.9831	0.0099	0.01	0.00010435	8738	105142	60.209	1153	14706	17.535	643	7190	6.7026	16.8884	16.8884	53.2524	54.781
SP8	PREB1_2	cluster_4	SP4	10240	109511.292	108346	116609	702.6879	0.9827	0.0105	0.01	51915	1257959	63.21	7941	139555	9.0423	423	10240	5.1123	14.8499	14.8499	53.2804	56.7886	
SP8	CUK2_1	cluster_4	SP4	1037	1112.237	1032	1202	52.2907	0.9823	0.0111	0.07	0.07654	144	7992	75.035	110	1380	11.753	63	1037	5.7362	14.5451	14.5451	61.7992	61.7992
SP4	HR6_1	cluster_1	SP8	3960	4033.276	3868	4216	103.1957	0.9823	0.0112	0.01	0.00010435	2372	44779	67.58	8065	95666	23.7	3760	3960	5.7386	8.5007	8.5007	66.0138	66.0138
DP	RUN3_2	cluster_5	Common_1DN	9910	10933.281	10314	10932	199.3907	0.9822	0.0116	0.01	3763	55648	49.239	1531	22215	18.746	657	9910	6.8707	18.3879	17.8084	44.6095	44.6095	
DP	TCF3_1	cluster_5	Common_1DN	65172	69551.31	68986	71997	603.8072	0.9816	0.0122	0.02	26399	300000	24.865	2289	30000	22.462	3102	65172	8.2007	19.3249	19.3249	52.1334	52.1334	
SP8	CUK1_9	cluster_4	SP4	1615	1755.399	1649	1881	68.3918	0.9815	0.0104	0.028	0.032	577	9569	67.331	174	2765	18.475	100	1615	11.043	15.3711	14.6008	47.4713	48.193
DN	HR know1	cluster_2	DP	7713	8289.774	8098	8481	126.1877	0.9804	0.0104	0.004	9344	135063	76.665	824	11147	6.3273	558	7713	4.7381	10.9737	10.9737	67.7184	69.1392	
SP4	TCV_1	cluster_4	SP4	7613	8299.891	7613	8375	100.1921	0.9804	0.0104	0.004	9344	135063	76.665	824	11147	6.3273	558	7613	4.7381	10.9737	10.9737	67.7184	69.1392	
SP8	HRGAL_1	cluster_4	SP4	10226	11068.284	10795	11325	161.4339	0.9801	0.0105	0.01	15645	17765	63.498	1373	15166	13.755	10226	10226	8.048	15.6609	15.6609	56.7741	56.7741	
SP8	MFT3_1	cluster_4	SP4	13291	14223.72	13857	14519	197.5013	0.9795	0.0105	0.005	17672	187257	61.78	1830	22395	8.0405	1017	13291	4.8834	7.9915	7.9915	55.5718	56.7741	
SP8	RUN3_5	cluster_4	SP4	2622	2941.142	2622	29740	299.9986	0.9798	0.0105	0.005	17672	187257	61.78	1830	22395	8.0405	1017	2622	4.8834	7.9915	7.9915	55.5718	56.7741	
SP8	MAG know1	cluster_4	SP4	3529	3908.272	38708	39965	383.4718	0.9793	0.0108	0.001	20125	38561	56.181	4884	5768	10.354	2436	3529	5.8336	9.4742	9.4742	48.771	51.408	
DP	MFT3_1	cluster_5	Common_1DN	18909	12893.912	12375	13199	194.5155	0.9791	0.0101	0.01	4473	66572	54.16	1888	24720	20.111	880	18909	6.3879	16.9556	16.9556	48.4628	48.4628	
DP	TCF3_1	cluster_5	Common_1DN	12286	13899.618	12954	13557	214.2814	0.9792	0.0102	0.01	12286	14062	56.247	940	10862	12.064	729	12286	4.5403	11.8543	11.8543	50.9295	50.9295	
DP	SOX16_4	cluster_5	Common_1DN	1436	4673.203	4476	4890	113.4416	0.9789	0.0108	0.012	1091	25128	47.709	773	10090	19.157	318	1436	8.2325	13.756	13.756	41.1384	42.9732	
SP8	HR4_2	cluster_4	SP4	1249	13396.285	13080	13704	181.4083	0.9788	0.0101	0.01	6695	96889	66.045	1455	20483	14.006	880	1249	4.9898	12.8454	12.8454	60.6796	60.6796	
SP8	POU2F2 know15	cluster_2	DP	4549	4979.315	4744	5155	107.2003	0.9789	0.0101	0.01	3825	46420	60.186	400	4793	10.485	370	4549	3.7423	9.5979	9.5979	58.9529	59.2026	
SP4	MFT3_1	cluster_2	DP	24035	25965.765	25355	26431	309.0044	0.9778	0.0101	0.01	33477	34786	52.302	3658	49981	23.604	1720	24035	7.1792	17.002	17.002	48.0883	48.0883	
SP4	MFT3_1	cluster_1	SP8	23641	25490.529	25102	25881	255.1747	0.9774	0.0107	0.001	38636	53302	65.297	3804	39477	5.0033	1797	23641	2.9963	4.6511	4.5887	58.8009	59.2026	
DP	HRGAL_1	cluster_2	DP	11349	12566.143	12003	12272	160.9589	0.9782	0.0105	0.01	10000	11048	52.625	808	10666	11.964	1160	11349	6.0216	10.8284	10.8284	51.0286	51.0286	
SP8	SOX10_9	cluster_4	SP4	7101	7644.971	7395	7944	160.1099	0.9764	0.0102	0.002	3412	47797	56.857	1829	19585	16.446	515	7101	4.8447	15.0838	14.8566	49.7104	51.3635	
SP8	FLK3_1	cluster_4	SP4	4477	4832.635	4479	5060	141.8683	0.9764	0.0103	0.016	0.016696	5938	53844	24.833	2201	28529	9.0727	888	4477	2.0725	8.3867	8.3867	22.6261	22.843
SP8	HR4_2	cluster_4	SP4	3416	3757.516	3416	3908	65.6123	0.9764	0.0106	0.01	0.00010435	2679	3276	62.045	1044	1405	14.054	449	3416	2.4669	5.7468	5.746		

SP4	ETV_2	cluster_1	SP8	2150	2385.907	2214	2544	100.97	0.9012	0.1501	0.008	0.0008478	4906	44382	25.62	1051	9352	5.4294	240	2150	1.2482	4.892	4.8443	22.8554	22.9897	
SP4	FEA_2	cluster_1	SP8	7684	1152.804	7821	1153.2002	0.9006	0.1516	0.0091	0.007	0.0038	7684	7684	7821	7684	7684	7821	7684	476	7684	0.5376	4.468	4.5078	55.3357	55.3357
SP4	ARDI_2	cluster_4	SP8	2936	1261.784	3042	1408.6028	0.9002	0.1518	0.004	0.005026	987	15963	50.765	461	6775	25.146	193	2936	193	2936	9.3369	19.316	18.9225	43.1317	43.1317
SP4	KCF_1	cluster_4	SP8	5975	6527.5	6137	6751	132.8867	0.9001	0.1519	0.001	0.000435	6473	77854	57.761	1001	11533	8.5489	497	5975	4.9369	7.678	7.5462	49.6503	49.6503	
SP4	SIAD_1	cluster_4	SP8	3023	3023	3023	3023	0.9002	0.1519	0.001	0.000435	3023	3023	3023	3023	3023	3023	3023	3023	3023	3023	3023	3023	3023	3023	3023
SP4	POU2F_known1	cluster_5	Common_1	DP	6673	7415.714	7133	7637	134.8213	0.8999	0.1522	0.001	0.000435	3186	38242	51.233	14781	19.802	683	6673	8.9399	17.9507	17.4484	45.742	45.1458	
SP4	REL_1	cluster_4	SP8	10650	11842.953	11984	12074	141.8904	0.8993	0.1532	0.001	0.001	12386	110709	62.586	2162	19322	10.678	1191	10650	5.947	9.6517	5.9022	55.0829	55.0829	
SP4	CFI_known2	cluster_4	SP8	4020	4020	4020	4020	0.9002	0.1535	0.001	0.000435	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020	4020
SP4	RUNK_1	cluster_4	SP8	15796	17572.077	17577	17899	251.0455	0.8989	0.1537	0.001	0.001	23991	42439	65.225	1862	27443	4.2173	954	15796	14.7764	32.571	37.216	56.0049	57.5983	
SP4	HRF_known1	cluster_4	SP8	15285	17007.913	16666	17316	200.8021	0.8987	0.1541	0.001	0.001	7912	114984	65.268	1864	26418	14.995	1050	15285	8.6761	18.327	13.2572	56.3305	57.5853	
SP4	HEX_1	cluster_4	SP8	2325	2325	2325	2325	0.9002	0.1541	0.001	0.000435	2325	2325	2325	2325	2325	2325	2325	2325	2325	2325	2325	2325	2325	2325	2325
DP	SOX_4	cluster_5	Common_1	DP	5914	6583.174	6254	6862	193.5269	0.8984	0.1546	0.001	0.0010909	2331	35768	60.478	969	14283	10.8077	385	5914	7.6031	12.7668	16.5343	47.1026	47.1026
SP4	EFZ_1	cluster_4	SP8	5918	6635.605	6458	6822	113.0623	0.8979	0.1554	0.001	0.001	7211	83269	64.648	989	14007	10.277	355	5918	5.914	10.527	7.35	56.1173	56.1173	
DP	SOX_1	cluster_5	Common_1	DP	3919	4095.717	4021	4533	95.3441	0.8994	0.1562	0.001	0.000435	3919	4021	4021	4021	4021	3919	3919	3919	3919	3919	3919	3919	3919
DP	POU2F_known12	cluster_5	Common_1	DP	6583	7346.569	7131	7568	132.2383	0.8961	0.1583	0.001	0.000435	3757	37632	51.558	1513	16042	10.2112	674	6583	8.2149	17.9908	17.4981	45.4573	45.4573
DP	SOX_2	cluster_5	Common_1	DP	6639	7411.376	7124	7666	164.7416	0.8958	0.1588	0.001	0.000435	2774	38842	48.471	1185	15579	20.441	485	6639	9.809	19.082	14.7833	46.2923	46.2923
DP	POU2F_known10	cluster_2	DP	4766	5322.5	5178	5628	17.5512	0.8954	0.1593	0.001	0.000435	4013	54229	74.503	838	7275	30	537	4766	6.5478	8.9007	6.4878	46.081	46.081	
SP4	MWBL_5	cluster_2	DP	3947	4411.258	4218	4610	113.4211	0.8948	0.1604	0.001	0.000435	2849	49564	65.783	445	6853	8.81	247	3947	5.9001	8.6697	5.889	55.9556	55.9556	
SP4	ERL_known9	cluster_2	DP	37951	42016.57	41596	42439	277.6185	0.8947	0.1606	0.001	0.001	29509	400130	74.089	4800	57195	10.59	2790	37951	16.9205	9.4547	9.3947	68.8837	68.8837	
DP	POU2F_known10	cluster_5	Common_1	DP	6794	7597.14	7385	7819	130.8851	0.8943	0.1612	0.001	0.000435	4216	38332	52.275	1684	14748	20.262	768	6794	9.334	18.2163	17.9639	45.6957	45.6957
SP4	MAF_known1	cluster_2	DP	14165	15839.393	15446	16219	240.8734	0.8943	0.1612	0.001	0.000435	10515	166406	54.325	1919	29523	7.654	889	14165	7.0443	8.6185	4.5123	46.122	46.122	
SP4	MEF_known1	cluster_2	DP	36796	4157.585	40629	41651	305.6888	0.894	0.1616	0.001	0.001	28933	253419	48.619	9529	85097	16.198	4085	36796	7.6201	14.4061	11.4061	42.8991	42.8991	
DP	POU2F_known5	cluster_5	Common_1	DP	7729	8846.498	8395	8907	160.8282	0.8939	0.1618	0.001	0.000909	3181	41440	50.684	1410	17442	21.323	805	7729	9.453	19.0592	18.5511	44.3226	44.3226
SP4	PATZ_1	cluster_4	SP8	5336	62004.001	61340	62613	381.5196	0.8934	0.1626	0.001	0.001	71231	944599	64.129	7774	98544	6.9002	4281	5336	3.7609	9.8645	5.9773	55.0682	55.0682	
SP4	EFZ_3	cluster_4	SP8	2571	2878.012	2714	3023	94.9111	0.8934	0.1627	0.001	0.001	2069	35210	66.193	273	4492	8.4447	155	2571	4.8333	7.4915	7.8019	54.7703	57.2321	
DP	TCF_1	cluster_2	DP	26288	29440.821	28838	30373	355.234	0.8933	0.1629	0.001	0.000435	25056	149704	60.000	61004	15952	16268	55995	27.648	1567	26288	41.675	41.675	41.675	
DP	SOX_2	cluster_2	DP	264	295.684	246	338	27.7107	0.8932	0.163	0.154	0.154	279	2511	51.763	69	951	12.183	30	264	5.4022	7.4623	4.7873	44.783	44.783	
DP	FOXP_1	cluster_2	DP	18475	20686.517	20206	21148	306.7899	0.8931	0.1631	0.001	0.000435	10678	252394	65.084	1880	37085	9.5554	873	18475	9.1757	7.3141	4.6352	49.818	49.818	
SP4	FEA_2	cluster_4	SP8	10413	11652.614	12147	11945	151.2462	0.8932	0.1644	0.001	0.001	14173	112795	62.762	10467	11384	10.467	5362	10413	6.2246	12.362	5.7172	54.7117	54.7117	
SP4	TFID_1	cluster_1	SP8	781	875.517	808	944	40.2032	0.8922	0.1646	0.152	0.154	967	12518	74.454	97	1202	7.492	1	781	1.4652	6.239	62.866	64.975	64.975	
DP	SOX_1	cluster_5	Common_1	DP	2128	2386.296	23290	24123	238.8912	0.8916	0.1655	0.001	0.001	10707	11815	49.917	4487	48020	20.248	1342	2128	18.2898	18.1777	17.8877	43.9983	43.9983
DP	SOX_2	cluster_5	Common_1	DP	4368	4833	4673	249.5881	0.8915	0.1657	0.001	0.000435	6096	6195	79.916	5099	11636	15.727	1639	4368	10.598	10.598	10.598	42.206	42.206	
SP4	NFB_known10	cluster_4	SP8	10252	11500.874	11193	11762	175.7258	0.8914	0.1658	0.001	0.001	10708	129395	64.216	1529	18124	8.9945	853	10252	10.584	7.966	5.9323	56.5659	56.5659	
SP4	HRF_known1	cluster_2	DP	6549	7148.031	7316	7970	138.9663	0.8913	0.1661	0.001	0.001	8136	119181	67.85	842	11347	6.1273	468	6549	3.7174	5.7101	5.9495	58.7512	58.7512	
SP4	HEX_2	cluster_2	DP	3714	3714	3714	3714	0.9002	0.1661	0.001	0.000435	3714	3714	3714	3714	3714	3714	3714	3714	3714	3714	3714	3714	3714	3714	3714
SP4	HEX_1	cluster_1	SP8	19284	21650.473	21230	22208	145.4471	0.8903	0.1676	0.001	0.001	35477	39412	62.645	15469	19483	15.242	1373	19284	15.552	5.5158	19.2752	53.2523	53.2523	
SP4	LMO_1	cluster_2	DP	54815	6167.609	60315	62255	455.4471	0.8903	0.1676	0.001	0.001	26442	39412	62.645	15469	19483	15.242	1373	54815	15.552	5.5158	19.2752	53.2523	53.2523	
DP	POU2F_known1	cluster_5	Common_1	DP	28828	32922.973	32217	33821	219.7027	0.8902	0.1688	0.001	0.001	12127	142996	64.022	10217	12349	14.846	1044	28828	13.748	13.748	13.748	47.389	47.389
SP4	MAZC_3	cluster_4	SP8	2897	3355.333	3088	3402	99.5223	0.89	0.1682	0.001	0.0010909	3149	40963	60.391	447	5575	7.8391	229	2897	4.2721	7.0722	7.0722	50.104	50.104	
SP4	OXZ_2	cluster_4	SP8	435	489.053	449	533	26.3544	0.8897	0.1686	0.152	0.15158	381	3429	70.886	84	716	14.78	49	435	8.9672	12.8609	8.9672	58.3333	58.3333	
DP	POU2F_known10	cluster_5	Common_1	DP	28828	32922.973	32217	33821	219.7027	0.8897	0.1688	0.001	0.000435	10804	28828	60.804	10804	28828	60.804	10804	28828	60.804	10804	28828	60.804	60.804
SP4	ARR1-ARR1_HF1_1	cluster_2	DP	9279	10975.648	10008	10581	110.9192	0.8895	0.1689	0.001	0.001	10111	103885	71.095	1807	14633	8.9004	1130	9279	6.3002	8.9004	8.9004	42.6346	42.6346	
SP4	HRF_known1	cluster_2	DP	17241	19946.608	19543	20338	247.4656	0.8894	0.1689	0.001	0.001	10166	132887	67.014	3322	42596	15.127	1367	17241	6.3002	13.4868	13.4868	41.1499	41.1499	
DP	POU2F_known5	cluster_5	Common_1	DP	2212	2487.628	24005	23707	238.6564	0.8893	0.1692	0.001	0.000435	2212	24005	24005	24005	24005	2212	2212	2212	2212	2212	2212	2212	2212
DP	MAZC_1	cluster_2	DP	3259	3667.001	3584	3750	50.6086	0.8886	0.1704	0.001	0.0010909	2464	44784	80.238	798	9439	8.3474	549	3259	3.599	7.5533	4.7272	46.9008	46.9008	
DP	POU2F_3	cluster_5	Common_1	DP	4054	4562.691	4354	4693	81.5889	0.8885	0.1705	0.001	0.0010909	2892	23182	50.653	1185	9162	20.019	515	4054	8.8381	17.8777	43.5999	49.2566	49.2566
DP	FEA_2	cluster_4	SP8	7703	11652																					

DN	CUK2_2	cluster_2	DP	179	204953	176	234	177088	0.874	0.1943	0.083	0.090545	368	3312	68275	36	310	63904	20	179	54348	54046	555556	571749	
DN	HFE_1	cluster_2	DP	310	306563	310	317	31397	0.876	0.1917	0.081	0.091095	1897	1785	18786	1897	1897	1785	1897	1897	1785	1897	1897	1897	1897
DP	SOX_6	cluster_5	Common_1_DN	9332	10684414	10378	11012	116442	0.8734	0.1952	0.091	0.0910099	3055	54432	49299	1562	12427	20149	18727	1897	1897	1897	1897	1897	1897
SPR	AF15_know5	cluster_4	SP4	13465	1542020	15013	15775	2351878	0.8732	0.1956	0.061	0.0910099	11933	167611	58351	1597	26814	9669	93462	84519	172036	1717443	610027	604901	
SPR	SOX1_1	cluster_2	Common_1_DN	8006	94564	10759	10561	10561	0.8731	0.1957	0.083	0.0910099	7955	40127	21805	1400	21549	1005	9346	84519	172036	1717443	610027	604901	
DN	HMG1A_1	cluster_2	DP	1811	1845379	1783	1903	147955	0.8731	0.1958	0.081	0.09100435	1341	26040	4090	7202	4121	47511	63001	652282	61866	652278	652278	652278	
SP4	HFE1_2	cluster_1	SP8	7676	8677789	8465	8906	1427404	0.8731	0.1959	0.061	0.0910099	4392	183803	69274	964	12652	47788	569	7576	28615	41557	41308	594299	594299
SP4	SP1_know2	cluster_2	Common_1_DN	15011	1703558	17011	17182	162545	0.8732	0.1960	0.083	0.0910099	11967	21282	162545	11967	11967	11967	11967	11967	11967	11967	11967	11967	11967
DN	SP1_know2	cluster_2	DP	167281	19156171	190008	195844	4709916	0.8727	0.1964	0.081	0.0910099	131181	188239	79788	17987	249399	10758	11311	167281	92475	92475	92475	92475	92475
SPR	EGRA_2	cluster_2	DP	76363	87333291	86857	88276	1470322	0.8724	0.197	0.081	0.0910099	10326	822881	71563	7829	7829	7829	7829	7829	7829	7829	7829	7829	7829
DN	HES1_1	cluster_2	DP	32062	36760154	36523	37325	3056463	0.8724	0.197	0.081	0.0910099	31260	36760154	36523	37325	36760154	36523	37325	36760154	36523	37325	36760154	36523	37325
DN	FOU2F_know11	cluster_2	DP	4596	5270495	5124	5422	934561	0.872	0.1972	0.061	0.09100435	2407	577	1881	76	7325	9434	467	4596	5270495	5124	5422	934561	62144
SP4	HES1_1	cluster_2	DP	31465	36088431	35392	36379	3201297	0.8716	0.1982	0.081	0.0910099	5602	749612	62445	4230	58105	10411	2238	31465	15373	90902	90902	90902	90902
DN	CFP_1	cluster_2	DP	5090	5796462	5045	5951	8931836	0.8716	0.1987	0.061	0.09100435	5440	5941	7337	594	594	594	594	594	594	594	594	594	594
DN	RUN2_4	cluster_2	DP	2816	3682056	30055	31123	1892484	0.8701	0.2008	0.081	0.09100435	2375	34218	83028	2540	37614	91272	1777	2816	3682056	30055	31123	1892484	693606
DP	HMG1A_1	cluster_5	Common_1_DN	3256	3742457	3631	3850	667188	0.8701	0.2008	0.081	0.09100435	3004	18138	53492	1205	20853	2400	3256	3742457	3631	3850	667188	667188	667188
DP	HFE1_1	cluster_5	Common_1_DN	33095	35641428	35388	35726	147506	0.8701	0.2009	0.081	0.0910099	15736	641501	687	62099	61	61	61	61	61	61	61	61	61
DN	ARID3A_2	cluster_2	DP	1505	1729091	1637	1817	57789	0.8699	0.202	0.081	0.0913133	1208	25566	81304	155	2265	72011	98	1505	1729091	1637	1817	57789	632258
DN	SP8_1	cluster_2	DP	2537	2673793	2635	27308	3607389	0.8691	0.2025	0.081	0.0910099	2119	267374	21027	11105	11105	11105	11105	11105	11105	11105	11105	11105	11105
SPR	SP4_1	cluster_2	DP	13468	1547630	15360	15878	665255	0.8689	0.2028	0.081	0.0910099	8283	149054	7392	21873	10552	13468	1547630	15360	15878	665255	665255	665255	665255
DP	SOX1_3	cluster_5	Common_1_DN	6592	7588644	7313	7839	1622028	0.8686	0.2033	0.081	0.0910099	2798	38663	47284	1254	16454	20123	483	6592	7588644	7313	7839	1622028	170489
DN	KIF14_1	cluster_2	DP	11588	1334621	12361	13482	532817	0.8684	0.2036	0.081	0.0910099	8149	131200	74111	11820	18529	10352	7274	11588	8661	8394	8394	8394	8394
DN	FOU2F_know7	cluster_2	DP	4225	4848188	4706	4968	81785	0.8681	0.204	0.081	0.09100435	5446	54541	74724	1697	1697	1697	1697	1697	1697	1697	1697	1697	1697
DN	SOX1_3	cluster_5	Common_1_DN	18455	2125614	20907	21608	211561	0.8682	0.2039	0.081	0.09100435	14558	20141	70809	2772	30780	10809	1337	18455	6408	6408	6408	6408	6408
SPR	HFE1A-ABNT_1	cluster_2	DP	6908	795642	7799	8123	1008403	0.8682	0.2039	0.081	0.09100435	10555	7439	66239	1713	12082	10751	968	6908	795642	7799	8123	1008403	569
DN	FOU2F_know12	cluster_2	DP	4225	4848188	4706	4968	81785	0.8681	0.204	0.081	0.09100435	5446	54541	74724	1697	1697	1697	1697	1697	1697	1697	1697	1697	1697
DP	SOX1_2	cluster_5	Common_1_DN	2537	8354341	8035	8633	1709688	0.8681	0.2041	0.081	0.0910099	3145	44041	49589	1382	1789	1538	534	2537	8354341	8035	8633	1709688	164665
DP	BPT1_1	cluster_5	Common_1_DN	2657	3061386	3019	31064	2897593	0.8678	0.2045	0.081	0.0910099	10963	146228	52127	6083	6087	2142	2030	2657	94706	18158	18158	442142	442142
DN	CUK2_2	cluster_5	Common_1_DN	13260	13066911	130249	131757	4514382	0.8676	0.2049	0.081	0.0910099	8759	112646	76273	11788	17131	11788	11788	11788	11788	11788	11788	11788	11788
DP	CUK2_2	cluster_5	Common_1_DN	327	377596	329	423	292222	0.8675	0.2051	0.036	0.0432	279	279	101	51763	97	790	20265	40	327	67409	140369	110227	41271
SPR	HES1_1	cluster_2	DP	10732	12274106	12098	12488	1703631	0.8673	0.2054	0.081	0.09100435	9348	103156	59163	1941	21036	1065	979	10732	11511	10478	10478	10478	10478
DN	CF1C_know1	cluster_2	DP	1000	1003712	947	1000	1000	0.8672	0.2059	0.061	0.0910099	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
DN	CF2F_1	cluster_2	DP	8048	9282517	9120	9425	946923	0.867	0.2059	0.081	0.0910099	901	104773	81344	11609	9093	7403	8008	6283	78202	76814	76814	76814	76814
SP4	EGR3_3	cluster_2	DP	42011	48480338	48000	48972	3201087	0.867	0.2059	0.081	0.0910099	31018	497668	70207	4864	6087	10483	2867	42011	6423	9187	9187	9187	9187
DN	CF2F_2	cluster_2	DP	4954	5714596	5544	5882	1005736	0.8669	0.2061	0.081	0.0910099	4708	64579	8026	464	7560	9398	208	4954	6058	78669	78669	78669	78669
DN	SOX1_3	cluster_2	DP	4610	5318154	5546	5511	1008401	0.8668	0.2062	0.081	0.0910099	3098	57307	70134	592	7838	93759	336	4610	5318154	5546	5511	1008401	80888
DN	FOU2F_know14	cluster_2	DP	4857	568276	4706	4857	4857	0.8668	0.2062	0.081	0.0910099	4857	4857	4857	4857	4857	4857	4857	4857	4857	4857	4857	4857	4857
SP4	AF15_know4	cluster_1	SP8	6477	7472865	7588	7903	137877	0.8668	0.2063	0.081	0.0910099	10432	11705	66718	855	11313	64343	56	6477	7472865	7588	7903	137877	56
SP4	HFE1A-ABNT_1	cluster_1	SP8	3189	3679569	3880	3777	661225	0.8667	0.2064	0.081	0.0910099	10857	7321	66952	775	9438	4778	47	3189	3679569	3880	3777	661225	57674
SP4	CF1C_know1	cluster_1	SP8	2964	3468128	32603	34723	2351235	0.8666	0.2066	0.081	0.0910099	3095	3468128	32603	34723	2351235	3095	3468128	32603	34723	2351235	3095	3468128	32603
SP4	CF1C_know1	cluster_1	SP8	59584	68793478	68624	69773	5242271	0.8663	0.2071	0.081	0.09100435	55231	1020372	5886	6625	118066	68106	3260	59584	59584	59584	59584	59584	59584
DN	FCOM_2	cluster_2	DP	8735	10089209	9867	10292	132333	0.8658	0.2079	0.081	0.09100435	7498	96278	75255	1117	10676	10676	10676	10676	10676	10676	10676	10676	10676
SP4	CF1C_know1	cluster_2	DP	2964	3468128	32603	34723	2351235	0.8666	0.2066	0.081	0.0910099	3095	3468128	32603	34723	2351235	3095	3468128	32603	34723	2351235	3095	3468128	32603
DP	SOX1_2	cluster_5	Common_1_DN	4915	567728	5430	5912	1451593	0.8658	0.208	0.081	0.0910099	2388	32032	48779	919	11896	18252	365	4915	567728	5430	5912	1451593	391711
DP	HES1_1	cluster_2	DP	697	805296	744	873	413766	0.8657	0.2081	0.081	0.09100773	1228	11959	66289	158	1360	6582	588	697	805296	744	873	413766	50
DN	FOU2F_know1	cluster_2	DP	13260	13066911	130249	131757	4514382	0.8657	0.2049	0.081	0.0910099	8759	112646	76273	11788	17131	11788	11788	11788	11788	11788	11788	11788	11788
SPR	TFF1_know1	cluster_2	DP	2812	3248137	31102	32857	2452083	0.8655	0.2084	0.081	0.0910099	3402	246920	53035	8069	60446	11398	1862	2812	3248137	31102	32857	2452083	45767
SPR	SMAD4_1	cluster_4	SP4	22766	26208101	25794	26855	3161481	0.8654	0.2086	0.061	0.0910099	25393	30702	58455	3269	4282	7496	3614	22766	36951	61366	61366	61366	

SFB	FBP1_1	cluster_2	DP	5648	6613368	6489	6809	109.0106	0.854	0.2273	0.001	0.00010435	12017	76393	53,125	12593	8,754	809	5648	3,9277	7,4145	7,3933	44,0632	44,8503	
DP	FCOX4_2	cluster_5	Common_I_DN	12056	12108	189784	189784	0.804	0.00010435	0.00010435	0.00010435	0.00010435	10565	10666	10666	10666	10666	10666	10666	10666	10666	10666	10666	10666	
SFB	ATF2_1	cluster_2	DP	574	672,305	627	710	25.4299	0.854	0.2277	0.001	0.00010435	1370	950	70,561	137	950	70,561	137	950	70,561	137	950	70,561	
SFB	Stat_known2	cluster_2	DP	13471	1574232	15389	16157	213.7979	0.854	0.2277	0.001	0.00010435	18101	178852	67,814	1238	23721	8,9942	84	13471	4,2274	7,6759	17,5319	56,7893	
DP	FOUR2_known14	cluster_2	Common_I_DN	1804	1819	48,165	48,165	0.8238	0.00010435	0.00010435	0.00010435	1804	1819	48,165	48,165	1804	1819	48,165	48,165	1804	1819	48,165	48,165	1804	
DP	RUN2_5	cluster_2	DP	3001	37476,813	37038	37933	272,7372	0.8239	0.2279	0.001	0.001	2376	48017	80,689	2750	49946	6,284	1840	3001	7,9051	7,9831	66,9001	68,1556	
DP	FOXM1_1	cluster_5	Common_I_DN	7009	8314,057	8086	8522	133,2516	0.8539	0.2279	0.001	0.00010909	4378	37858	53,335	2009	17372	22,15	8893	7009	10,1001	18,8875	44,445	45,1533	
DP	KIF2_2	cluster_2	DP	3770	4394	1148	1148	0.8581	0.00010435	0.00010435	0.00010435	3770	4394	1148	1148	3770	4394	1148	1148	3770	4394	1148	1148	3770	
DP	TKL1_2	cluster_5	Common_I_DN	14575	17071,94	16659	17519	253,7513	0.8537	0.2281	0.001	0.00010435	4990	79089	50,708	2030	34408	22,061	80	14575	3,8044	18,9066	40,8867	42,3593	
DP	ARID1A_1	cluster_2	DP	804	941,933	981	1005	37,2451	0.8537	0.2282	0.001	0.0012632	490	13600	80,227	100	1257	7,4155	62	804	4,7428	6,25	5,9118	62	
DP	KIF2_1	cluster_2	DP	9088	9478	7077	7077	0.8539	0.2289	0.001	0.00010435	9088	9478	7077	7077	9088	9478	7077	7077	9088	9478	7077	7077	9088	
DP	MWBL2_1	cluster_2	DP	1385	1623,973	1527	1730	60,7007	0.8529	0.2295	0.001	0.00010435	1151	16654	68,222	2427	2626	2,9606	127	1385	12,2444	8,405	8,3163	51,417	
DP	FOUR2_known15	cluster_5	Common_I_DN	4711	5447,173	5334	5729	113,7979	0.8529	0.2296	0.001	0.00010435	2667	29451	51,273	1058	11078	7,9887	438	4711	8,2344	16,04	41,3989	42,7063	
SFB	HES7_1	cluster_2	DP	5507	6424	4671	4671	125,6144	0.8528	0.2297	0.001	0.00010435	3049	40679	60,375	1070	1003	5,007	5007	5507	6424	6,0545	51,168	49,208	
DP	KIF4_1	cluster_1	SFB	4711	5526,993	54730	55794	305,6838	0.8527	0.2299	0.001	0.001	78036	39257	64,791	9288	86550	47,613	4974	4711	6,3474	16,2653	53,553	54,4783	
SFB	MEAT1_1	cluster_2	DP	2658	3105,561	2939	3258	96,6609	0.8527	0.2299	0.001	0.00010909	2038	37257	57,876	2047	1957	8,2193	278	2658	4,0939	6,872	47,5453	47,4978	
DP	KIF2_2	cluster_2	DP	3639	4386,513	4189	4498	1376	64,8876	0.8526	0.2301	0.001	0.00010435	4704	47046	55,56	564	5596	371	3639	6,074	7,735	7,8699	63,5274	
DN	SOK17_5	cluster_2	DP	2911	3414,644	3259	3544	84,2583	0.8526	0.2301	0.001	0.0011429	2792	39391	50,122	381	5012	7,9912	212	2911	5,0921	8,7993	37,5663	38,0806	
DN	HIF1A_2	cluster_2	DP	19015	22125,158	22030	22592	163,5243	0.8517	0.2315	0.001	0.001	15992	214291	80,94	2138	27848	10,519	1436	19015	7,1822	8,8734	50,1546	68,2814	
DP	SOK16_1	cluster_5	Common_I_DN	4827	5673,322	5468	5827	132,3977	0.8518	0.2315	0.001	0.001429	2486	37371	48,453	789	64860	10931	5628	4827	5,5558	15,2781	15,0598	49,5564	
DP	NFIB_known1	cluster_5	Common_I_DN	23417	27605,976	27073	27941	262,531	0.8515	0.2319	0.001	0.001	11257	136572	54,99	1836	46680	20,355	1949	23417	17,3137	17,1463	49,0561	50,1625	
DP	FOUR2_known16	cluster_5	Common_I_DN	4666	5479,995	5241	5717	142,489	0.8515	0.2319	0.001	0.00010909	2099	27973	46,898	985	11945	20,317	363	4666	7,9311	17,2939	16,9224	37,6166	
DP	SOK15_1	cluster_2	DP	4615	5402,639	5230	5623	130,8364	0.8514	0.2321	0.001	0.00010435	4222	59134	70,243	597	7939	9,4429	338	4615	5,4808	8,0057	7,9043	58,6184	
DP	FBP1_1	cluster_5	Common_I_DN	4822	6838,716	6662	7025	116,314	0.8514	0.2322	0.001	0.00010435	1194	79074	54,99	1836	12593	8,7924	836	4822	4,0487	7,9627	46,338	46,232	
DP	PKI1_4	cluster_5	Common_I_DN	4449	5226,918	5046	5397	104,4669	0.8512	0.2324	0.001	0.00010435	2139	25948	48,177	200	1037	20,49	401	4449	8,2083	17,2919	17,1458	40,3099	
DP	SOK16_2	cluster_5	Common_I_DN	4827	5673,322	5468	5827	132,3977	0.8508	0.2323	0.001	0.00010909	2170	28440	65,561	567	5165	18,409	4827	5673	6,9555	15,53	14,7896	50,5247	
SFB	MWBL2_4	cluster_4	SFB	1843	2166,232	2077	2287	74,3286	0.8509	0.2333	0.001	0.00010435	1165	22877	64,03	254	3426	6,7386	133	1843	2,3064	8,2002	32,322	53,7945	
SFB	MIF1_1	cluster_4	SFB	2434	2848,269	2796	2893	284,1489	0.8508	0.2332	0.001	0.001	38026	51931	65,795	3421	43884	5,5619	1842	2434	3,0699	4,7321	44,6605	53,1337	
SFB	EGFR_known12	cluster_5	Common_I_DN	78988	9261,665	8993	93474	474,0953	0.8507	0.2333	0.001	0.001	10567	96406	59,047	10567	10567	10567	78988	480	78988	5,1149	5,1149	57,7006	57,7006
DN	HIF1A_1	cluster_2	DP	16330	16791,001	16452	15877	134,8272	0.8506	0.2336	0.001	0.00010435	15999	153110	79,113	1804	13300	6,9574	8701	16330	8,7062	16,962	66,1863	67,3704	
DN	RUN2_2	cluster_2	DP	26187	30798,773	30408	3148	229,7721	0.8503	0.234	0.001	0.00010435	28189	397366	76,459	2986	40745	7,8399	1876	26187	10,5383	6,6572	61,2805	64,2005	
DP	FBP1_known1	cluster_2	Common_I_DN	1314	1573,001	1573	1573	0.8503	0.2341	0.001	0.00010435	1314	1573	1573	1573	1314	1573	1573	1573	1314	1573	1573	1573	1314	
DP	EGFR_1	cluster_1	SFB	19974	23983,749	23158	23891	228,0801	0.8502	0.2341	0.001	0.001	33753	337110	66,76	2322	35618	5,9792	1799	19974	13,5556	19,9754	55,0433	56,4433	
SFB	MWBL2_known2	cluster_4	SFB	2445	2975,851	2711	3025	97,4999	0.8502	0.2341	0.001	0.00010435	2285	34653	64,344	365	4617	8,5729	166	2445	4,3599	7,248	37,0557	52,9565	
DP	ATF1_known1	cluster_2	DP	1209	1394	1394	1402	137,8316	0.8498	0.2341	0.001	0.001	1209	1394	1394	1394	1209	1394	1394	1209	1394	1394	1394	1209	
DN	TCF7L1_2	cluster_2	DP	14459	17021,116	16709	17255	170,3657	0.8495	0.2353	0.001	0.00010435	14647	161969	70,069	2272	24864	10,609	1328	14459	6,9905	8,927	58,4507	59,1358	
DN	FBP1_1	cluster_2	DP	16486	19410,336	19316	19740	189,038	0.8493	0.2356	0.001	0.00010909	16486	21822	75,21	2078	26531	20,778	2078	16486	5,8749	7,9075	7,829	60,7796	
DP	TKL1_1	cluster_2	DP	4176	4924,288	4804	4176	52,3346	0.8494	0.2356	0.001	0.00010435	20409	20409	4176	4176	13668	49,04	3473	4176	6,2823	11,2137	58,5679	60,7796	
DP	FBP1_known2	cluster_1	SFB	17309	84038,848	83387	84712	413,781	0.8492	0.2357	0.001	0.001	17309	166680	69,085	1075	14977	5,546	5388	17309	11,9671	15,148	45,5683	57,1057	
DN	TKL2_4	cluster_2	DP	14350	16904,336	16575	17236	186,4758	0.8489	0.2363	0.001	0.00010909	9894	184765	73,27	1649	23664	11,655	393	14350	7,0077	9,8342	59,0055	60,6406	
DN	SOK16_2	cluster_2	DP	7128	8407,617	8395	8426	60,1804	0.8488	0.2363	0.001	0.00010435	7128	8426	8395	8395	7128	8426	8395	7128	7128	8426	8395	8395	7128
DN	SOK13_1	cluster_2	DP	2546	2999,519	2873	3127	75,6711	0.8489	0.2364	0.001	0.00010909	2495	39112	75,346	4823	8493	12,144	1566	2546	6,7872	6,7872	18,2524	18,2524	
DN	GMEB1_1	cluster_5	Common_I_DN	4623	5447,409	5138	5754	186,4275	0.8487	0.2367	0.001	0.00010435	1931	30986	22,575	1557	24649	17,958	296	4623	3,388	15,3288	14,9196	39,1029	
SFB	GATA_known16	cluster_2	DP	15138	20562,187	21289	22826	205,0266	0.8486	0.2368	0.001	0.00010435	15138	20562	21289	21289	15138	20562	21289	15138	15138	20562	21289	21289	
SFB	KIF16_1	cluster_2	DP	2998	9493,421	9345	9492	420,1524	0.8484	0.2372	0.001	0.001	79377	88759	67,446	19862	141421	10,747	7176	2998	6,0791	9,0518	53,318	56,6773	
DP	LMX2_2	cluster_2	DP	2339	2757,413	2629	2884	72,5491	0.8483	0.2373	0.001	0.00010435	381	30772	59,431	598	4669	9,1664	294	2339	4,592	7,7266	49,1839	50,0964	
DP	GATA_known15	cluster_2	DP	7608	9261,665	9093	9328	204,1071	0.8483	0.2376	0.001	0.00010435	7608	9328	9093	9093	7608	9328	9093	7608	7608	9328	9093	9093	
DN	FOXO1_1	cluster_2	DP	7165	8450,461	8234	8662	130,0911	0.8479	0.238	0.001	0.00010435	6232	81801	74,85	565	11860	10,852	565	7165	6,5562	8,6061	48,7951	50,6492	
DN	HES1_1	cluster_2	DP	3822	4599,172	44657	45519	275,5109	0.8479	0.2381	0.001	0.001													

DP	FREEL_1	cluster_5	Common_I_DN	196079	23421151	232631	235720	986.6839	0.8371	0.2655	0.001	0.001	48809	1172396	58.91	18832	415677	20.871	8422	196079	9.8525	127975	44.7218	47.2056	
DP	SPIC_1	cluster_5	Common_I_DN	3284	398041	3284	397932	342.855	0.8217	0.2661	0.001	0.001	78013	182811	71.56	6133	30210	12.821	2547	3284	15.246	18378	41.3781	47.2056	
SP8	GMEB3_1	cluster_2	DP	2161	2582.673	2460	704	17.1714	0.8368	0.2571	0.001	0.00010435	20047	7277	36.95	18662	35669	17.449	5799	2161	5.1893	7499	58.427	59.0509	
SP8	KL4_1	cluster_2	DP	6777	8002.006	79817	80981	346.8545	0.8368	0.2571	0.001	0.001	80837	77974	66.873	12881	112139	10.442	7003	6777	16.8466	8.6612	54.3669	55.4665	
SP8	KWD4_1	cluster_2	Common_I_DN	3002	3002	3002	3002	119	115.3268	0.8364	0.2577	0.001	0.00010435	4097	608	0.68	0.68	0.68	0.68	3002	0.00010435	0.00010435	0.00010435	0.00010435	
DP	TMAS_5	cluster_5	Common_I_DN	1884	22533.307	11992	23072	136.4219	0.8374	0.2578	0.001	0.00010435	5461	103978	53.836	23543	25208	22.025	1004	1884	18.8449	9.7577	18.3489	44.3039	
DP	SMAD_1	cluster_5	Common_I_DN	23663	28282.131	27983	28638	209.8876	0.8363	0.2579	0.001	0.00010435	15462	123736	56.699	6400	3404	20.288	2975	23663	23.8643	19.2407	19.2407	47.1457	
DP	INRP1_2	cluster_5	Common_I_DN	12092	13335	125.3004	12092	12092	12092	12092	12092	12092	12092	12092	12092	12092	12092	12092	12092	12092	12092	12092	12092	12092	12092
DP	FOPX1_1	cluster_5	Common_I_DN	20156	24108.191	23575	24631	312.0521	0.8361	0.2583	0.001	0.00010435	7205	112814	50.937	3180	46216	21.777	1283	20156	18.8363	10.9107	17.8666	40.3659	
SP8	SP1_1	cluster_2	DP	68085	82308.338	81614	83025	416.3311	0.8359	0.2585	0.001	0.001	49044	724818	65.702	9016	12710	11.525	7473	68085	6.3287	9.5888	5.4953	53.1321	
DP	MAQ2_1	cluster_2	DP	5142	59443	59443	59443	107.417	0.8354	0.2587	0.001	0.00010435	6303	107.417	0.8354	0.2587	0.001	0.00010435	6303	107.417	5142	10.2564	10.2564	10.2564	45.8266
SP4	HESJ_1	cluster_5	Common_I_DN	2182	2611.136	2408	735	76.694	0.8357	0.2589	0.001	0.00014118	306	12491	63.767	323	4233	21.269	140	2182	17.8042	10.964	17.66	53.5474	
DN	TRK2_1	cluster_2	DP	10770	21028.615	20706	21376	185.1077	0.8355	0.2592	0.001	0.00010435	11067	188839	77.429	1491	21789	11.691	1046	10770	17.2042	9.4515	13.3043	61.2469	
SP4	SP4_1	cluster_2	DP	5064	61441.268	60003	61445	147.155	0.8353	0.2592	0.001	0.00010435	57022	61445	61445	57022	61445	57022	61445	5064	50627	5.9645	5.9645	54.9505	
DN	MGA_1	cluster_2	DP	10444	12500.201	12241	12760	158.4591	0.8355	0.2593	0.001	0.00010435	6455	120957	77.12	1029	16639	15.144	627	10444	9.7713	6.5882	61.3039	62.7082	
DN	TCF2_1	cluster_2	DP	27349	32740.424	32379	31900	220.5712	0.8351	0.2596	0.001	0.001	16777	218881	77.73	1322	42596	11.727	2108	27349	7.3123	12.5499	64.2566	66.1956	
DP	FINDO2_2	cluster_2	DP	19479	23102.644	23045	23679	127.2213	0.8351	0.2597	0.001	0.00010435	1871	174600	72.498	2996	32543	13.174	1763	19479	8.0564	11.0425	58.8463	59.838	
DN	MAF know1	cluster_2	DP	43076	51576.042	51026	52042	304.5479	0.8352	0.2598	0.001	0.001	33303	506111	73.776	4900	71240	28.941	2884	43076	6.2767	8.6111	60.4678	60.4678	
DN	STAT know2	cluster_2	DP	16172	19363.035	19058	19632	181.5692	0.8352	0.2598	0.001	0.001	11028	223110	83.913	1258	23721	8.942	832	16172	6.1318	7.5444	7.3074	68.1759	
DP	GRL know12	cluster_2	DP	74795	89555.856	89265	90455	527.0477	0.8352	0.2598	0.001	0.001	50263	834736	66.661	8547	134649	10.896	4660	74795	5.9711	9.0723	8.9604	64.5229	
DN	GATA know16	cluster_2	DP	8918	10688.231	10397	10983	180.6113	0.8348	0.2605	0.001	0.00010435	6076	126052	74.197	772	15025	8.7059	436	8918	5.1834	7.1758	6.9644	56.4767	
DN	SOX3_1	cluster_2	DP	4142	4963.073	4781	5157	113.5909	0.8346	0.2608	0.001	0.00010435	3414	54700	70.442	486	7333	3.4448	268	4142	4.8444	5.3741	7.85	55.144	
SP8	REL_2	cluster_2	DP	8055	9672.283	9538	9804	82.1568	0.8338	0.2622	0.001	0.001	22592	90566	60.589	1713	12082	10.751	1325	8055	7.1265	9.0137	8.9051	66.252	
SP8	REL_2	cluster_2	DP	8466	10151.639	9930	10277	130.7017	0.834	0.2619	0.001	0.00010435	12473	117795	62.62	846	1862	6.9036	944	8466	4.7	7.5683	7.9057	50.624	
SP8	FREEL_1	cluster_2	DP	69594	83449.212	86366	84837	553.6064	0.834	0.2619	0.001	0.001	48842	81849	64.867	8626	133890	10.616	4531	69594	5.3378	8.9083	8.5063	51.9785	
DN	STAT know3	cluster_2	DP	12561	15664.261	14785	15324	164.3997	0.8338	0.2622	0.001	0.00010435	8777	177940	82.488	997	18856	8.7411	648	12561	5.8426	7.2998	7.0951	66.6154	
SP8	CUX1_9	cluster_2	DP	534	640.804	556	708	45.7461	0.8336	0.2626	0.02	0.024	577	9969	67.331	63	1004	6.781	32	534	3.6066	5.3566	50.7937	53.1873	
DP	SPIC_1	cluster_2	DP	21556	25809.419	25478	26131	205.6453	0.8331	0.2621	0.001	0.001	78104	17563	73.562	3965	6408	21.566	2156	21556	6.6432	6.6432	6.6432	47.2056	
SP8	MF12_1	cluster_2	DP	1800	13047.459	12826	13241	126.7914	0.8331	0.2634	0.001	0.001	19874	115244	64.476	3864	21678	10.948	1819	1800	10.870	5.1527	49.6859	50.143	
SP4	STAT know2	cluster_2	DP	13321	15991.757	15555	16423	252.8557	0.833	0.2636	0.001	0.001	9013	189093	68.952	1268	23721	8.942	679	13321	5.0208	7.3336	53.746	56.167	
SP4	STAT know2	cluster_2	DP	3202	38955.251	37863	39115	374.9645	0.8329	0.2637	0.001	0.00010435	2131	32062	71.523	32062	71.523	32062	3202	32062	3202	12.9237	12.9237	12.9237	45.8266
DN	MD_1	cluster_2	DP	6053	72748.785	72265	73205	279.2441	0.8328	0.264	0.001	0.00010435	40845	442152	76.991	10793	96618	16.54	1573	6053	10.3123	13.7018	62.1051	63.7066	
DP	NFB know10	cluster_5	Common_I_DN	21012	25123.712	24849	25617	237.6395	0.8327	0.2641	0.001	0.001	10299	121099	60.099	1609	24272	21.128	1763	21012	10.428	11.3719	47.8881	49.354	
DP	MAF1_1	cluster_5	Common_I_DN	73173	96113	91515	94725	184.7215	0.8327	0.2641	0.001	0.001	43323	913	43323	913	43323	913	73173	16.469	17.0461	17.0461	58.4443		
DP	MF13_1	cluster_5	Common_I_DN	16981	19927.399	19582	20310	221.036	0.8321	0.2652	0.001	0.001	12953	170029	62.803	2444	31937	11.797	1267	16981	6.1245	9.7815	11.0064	51.2978	
DP	TRK1_1	cluster_5	Common_I_DN	10891	13488	13311	13488	231.5913	0.832	0.2653	0.001	0.00010435	3108	63063	60.265	4328	57022	21.176	580	10891	8.5189	17.5333	17.27	38.238	
DP	STAT know3	cluster_2	DP	35139	41445	40982	41445	409.8213	0.832	0.2654	0.001	0.001	4874	41445	41445	40982	41445	40982	35139	35139	35139	35139	35139	35139	35139
DP	TRK2_1	cluster_5	Common_I_DN	25371	30499.552	29883	31020	330.0313	0.8319	0.2656	0.001	0.00010435	8236	140221	57.494	3274	59864	22.012	1505	25371	10.4805	12.2956	18.0936	56.2759	
SP4	CKS_1	cluster_2	DP	3482	4185.953	4042	4328	89.0201	0.8319	0.2656	0.001	0.00010435	4400	49947	65.073	629	6602	6.8488	324	3482	4.9303	5.3103	5.7456	53.1503	
DP	FREEL_2	cluster_2	DP	10487	12554.122	124077	12766	798.4787	0.8317	0.2662	0.001	0.00010435	60627	182427	60.627	60627	182427	60.627	60627	10487	10487	10487	10487	10487	10487
SP8	SP4_1	cluster_2	DP	71004	85398.932	84617	86200	435.7868	0.8314	0.2663	0.001	0.001	67362	823083	65.87	8712	11105	13511	5874	71004	5.6824	8.2362	6.8266	53.9909	
DN	RBP1_1	cluster_2	DP	8058	9692.649	9564	9824	81.8113	0.8314	0.2664	0.001	0.00010435	16019	111273	78.007	1838	15039	8.7574	1162	8058	3.2988	7.1355	6.2988	53.8987	
SP4	SP4_1	cluster_2	DP	4548	5465.41	54076	55292	265.3073	0.8312	0.2672	0.001	0.00010435	40986	4548	4548	40986	4548	40986	4548	4548	4548	4548	4548	4548	4548
SP4	KLF1_1	cluster_1	SP8	66258	79750.249	79998	80480	485.1988	0.8308	0.2674	0.001	0.001	72313	1170811	66.136	8057	123464	6.942	6448	66258	3.4774	5.826	52.3023	53.6658	
SP4	ESR2_1	cluster_1	SP8	39990	48150.58	47563	48770	375.8582	0.8305	0.2679	0.001	0.001	48113	794883	69.102	4521	71084	6.1812	2468	39990	3.4774	5.0978	5.0978	56.2574	
DN	TRK1_4	cluster_2	DP	12567	15077.606	14978	15537	183.0815	0.8306	0.2688	0.001	0.00010435	10754	12567	12567	10754	12567	10754	12567	12567	12567	12567	12567	12567	12567
DN	TRK1_4	cluster_2	DP	19687	24045.155	23672	24474	250.844	0.8304	0.2681	0.001	0.00010435	81107	211988	74.271	1881	34540	11.629	1062	19687	6.9543	9.5459	58.4429	59.0509	
DN	MAF1_1	cluster_2	DP	16647	19555.415	19505	20269	226.3036	0.8304	0.2682	0.001	0.00010435	12468	165248											

SFB	XBP1_4	cluster_4	SPA	4618	5632.706	5202	5829	132.8476	0.8228	0.2814	0.001	0.0003453	5176	67397	65.23	739	9250	8.4566	359	4618	4.2319	6.9359	6.8519	48.5792	49.9243	
SP4	NFkB_intron12	cluster_2	Common_1_DN	2197	26003	26003	26069	295.3344	0.8227	0.2814	0.001	0.0003453	5176	67397	65.23	739	9250	8.4566	359	4618	4.2319	6.9359	6.8519	48.5792	49.9243	
DN	SOX17_4	cluster_2	DP	3545	4309.846	4149	4477	97.1515	0.8226	0.2818	0.001	0.0010909	3186	46015	72.668	464	6154	7.9328	264	3545	5.9844	8.0441	7.7104	56.8666	57.5207	
DN	NFkB_2	cluster_5	Common_1_DN	5500	6443.546	6196	6670	132.9239	0.8226	0.2818	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SPA	CFE1_1	cluster_2	DP	6402	7715.1	7715.1	7808	358.1644	0.8221	0.2815	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DN	TBX19_1	cluster_2	DP	8071	9818.211	9514	10098	189.2836	0.8221	0.2817	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DN	FOXP2_2	cluster_5	Common_1_DN	3709	4312.116	4316	4649	76.1757	0.822	0.2827	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SPA	FOXP2_2	cluster_2	DP	10232	12624.67	12624.67	12925	257.7954	0.8217	0.2827	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SPA	FOXP2_2	cluster_2	DP	2766	3328.573	3215	3446	67.9995	0.822	0.2827	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DN	PNOX1_1	cluster_2	DP	2005	2644.226	26512	2785	212.4699	0.822	0.2828	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DN	IGFBP_1	cluster_2	DP	702	830.166	8471	8771	30.5761	0.8214	0.2817	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DP	MAGE_1	cluster_5	Common_1_DN	2185	2674.703	2672	2728	34.0266	0.8214	0.2818	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SP4	SP1_know1	cluster_2	DP	48418	58843.641	58320	59537	374.5485	0.8214	0.2818	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SP4	STAT_know1	cluster_2	DP	9912	11515.646	11515	11749	41.6048	0.8218	0.2815	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DN	MGA_2	cluster_2	DP	10899	13041.167	12737	13287	173.6466	0.8213	0.2819	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SPA	MAF_1	cluster_2	DP	16385	16022.846	16228	17236	239.1971	0.8211	0.2844	0.001	0.001	9706	11446	24600	30881	12287	15399	56.679	10899	70259	10.5237	16.8679	15.8443	58.776	60.1046
DN	GUX1_2	cluster_2	DP	510	521.461	509	589	38.4949	0.8209	0.2857	0.001	0.002632	344	7998	75.99	88	1392	5.1	888	4.3972	30	510	3.6766	3.6766	57.424	57.424
SP4	NFkB_know10	cluster_2	DP	11086	13066.362	13219	13807	181.0696	0.8208	0.2849	0.001	0.001	11078	12995	64.216	1818	2143	2368	10.828	929	11086	5.5017	8.6758	8.1511	52.1866	52.1866
SP4	FOXP0_4	cluster_2	DP	25600	31193.517	30601	31708	321.2077	0.8207	0.2811	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SPA	SMA2_1	cluster_2	DP	33426	40733.817	40127	41264	339.0201	0.8206	0.2812	0.001	0.001	25162	35744	58.021	5161	70716	11.478	2372	33426	5.4253	9.4269	9.3506	45.9601	45.9601	
SPA	NF12_2	cluster_2	DP	43352	52834.079	52226	53491	379.3304	0.8205	0.2854	0.001	0.001	39336	56201	65.133	5930	81999	9.4931	3048	43352	7.084	12.788	12.5065	51.3997	51.3997	
SP4	FTS_know1	cluster_2	DP	19344	23579.428	23128	24037	280.9188	0.8204	0.2856	0.001	0.001	12384	21145	58.804	2413	39722	11.224	1139	19344	5.466	9.1974	9.1974	47.2027	47.2027	
SPA	NF_know14	cluster_2	DP	17950	21881.324	21382	22500	269.2683	0.8203	0.2857	0.001	0.001	13966	29311	65.532	1777	34195	7.9612	880	17950	4.0741	6.6376	6.6376	50.084	50.084	
SPA	GUX2_2	cluster_5	Common_1_DN	425	518.41	474	565	26.7152	0.8202	0.286	0.001	0.0013333	381	9429	70.686	97	790	16.285	52	425	8.7611	13.6483	13.6483	53.6927	53.6927	
SP4	SMA2_1	cluster_2	DP	2782	2780.628	29645	29556	284.2524	0.82	0.2863	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DN	SOX4_2	cluster_2	DP	5809	8937.785	7830	8267	130.0979	0.8198	0.2867	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DP	NF12_MAGE_1	cluster_5	Common_1_DN	13197	18500.933	17619	18979	401.1389	0.8197	0.2867	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SP4	NF12_2	cluster_2	DP	2789	3377.661	3216	3540	104.4236	0.8198	0.2867	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DN	SOX18_2	cluster_2	DP	2658	3311.496	4344	4683	104.5786	0.8197	0.2868	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SPA	EF2_3	cluster_2	DP	3523	3979.248	2930	3239	59.0615	0.8194	0.2873	0.001	0.001	2073	35280	66.235	304	4770	8.9673	174	3523	3.6431	7.4288	7.4288	50.6579	50.6579	
SP4	NF12_know10	cluster_2	DP	2714	2970.728	2966	3126	189.2163	0.8192	0.2871	0.001	0.001	12626	21816	60.282	2708	4326	17.186	682	2714	5.8242	9.3864	9.3864	45.2226	45.2226	
DN	FOXP0_4	cluster_2	DP	2563	2762.688	2642	2881	72.0678	0.8192	0.2877	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SP4	FOXP0_5	cluster_2	DP	2060	3091.9676	30132	31016	26.9772	0.8192	0.2877	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SP4	SMA2_1	cluster_2	DP	428	476.334	5174	5278	174.8886	0.8192	0.2877	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DN	SOX7_3	cluster_2	DP	501	6118.654	6030	6320	129.604	0.819	0.288	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SPA	SP1_1	cluster_2	DP	65226	80024.956	79356	80795	444.2419	0.8188	0.2884	0.001	0.001	41057	66552	73.226	583	84626	13.223	323	501	5.5135	9.727	9.727	52.95	53.011	
SPA	SP1_4	cluster_2	DP	65226	80024.956	79356	80795	444.2419	0.8188	0.2884	0.001	0.001	41057	66552	73.226	583	84626	13.223	323	501	5.5135	9.727	9.727	52.95	53.011	
DN	SMA2D_1	cluster_2	DP	19426	23730.538	23454	23994	158.2175	0.8186	0.2887	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DN	ATF2_2	cluster_2	DP	4488	5482.935	5318	5641	94.8674	0.8186	0.2888	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SP4	FTS_know1	cluster_2	DP	15759	19217.444	19818	19546	283.0224	0.8185	0.2889	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SPA	FTS_1	cluster_2	DP	10421	14184.371	14310	14295	333.1775	0.8184	0.2891	0.001	0.001	27340	39390	65.257	6400	64554	10.684	2960	10421	5.6714	9.8924	9.8924	51.9955	51.9955	
SPA	NF12_1	cluster_2	DP	16214	12969.42	12678	13248	160.1992	0.8184	0.2891	0.001	0.001	10739	114073	63.425	1894	20525	11.406	382	16214	5.9015	9.3046	9.3046	50.792	51.0738	
DN	SOX11_2	cluster_2	Common_1_DN	2422	2780.128	29265	29259	233.0681	0.8183	0.2893	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
DN	SOX11_2	cluster_2	DP	452	5540.442	5759	5699	98.5805	0.8183	0.2898	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SPA	GATA_know16	cluster_2	DP	747	9104.855	8738	9417	196.3474	0.8179	0.2899	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582	16.3977	47.6965	47.9371	
SP4	SOX12_1	cluster_2	DP	9402	11325.1	11325	11610	129.3363	0.8178	0.29	0.001	0.0003453	5176	67397	65.23	738	10773	20.003	382	5500	18.9379	16.2582				

DP	ATFA_3	cluster_5	Common_I_DN	7314	9063.698	8780	5933	168.3373	0.807	0.3094	0.001	0.0004909	2413	44407	51.027	1433	17948	20.624	568	7314	8.4044	16.6243	16.4704	40.7511
DP	TBXL_1	cluster_2	Common_I_DN	1543	11066.188	11451	18764	170.1027	0.8069	0.3095	0.001	0.000491	3456	49093	57.716	14562	20992	21.765	8095	9049	9.6429	17.4406	18.2828	45.3574
DN	SMAD_2	cluster_2	DP	26192	32464.528	32133	32805	121.0753	0.8068	0.3097	0.001	0.0004935	28215	291809	73.223	4479	46031	11.115	3575	26192	5.9157	16.5847	17.4905	57.4905
SP4	TBXL2_2	cluster_2	DP	8896	11028.258	10669	11391	218.2	0.8067	0.3099	0.001	0.0004935	9606	101105	58.153	1123	13995	11.155	486	8896	5.1167	16.8477	18.7988	44.1674
SP4	CTCF_innov1	cluster_2	DP	8433	10556.67	10251	10882	220.3009	0.8065	0.3102	0.001	0.0004935	9102	105567	57.822	1100	13445	11.2162	4603	8433	5.1667	16.8477	18.7988	44.1674
SP8	PNKOW1_3	cluster_2	DP	10048	13747.863	13229	13922	201.3196	0.8065	0.3102	0.001	0.0004935	9663	107482	58.165	1292	1492	11.792	987	10048	5.1988	16.2163	18.1859	39.1978
SP4	PNKOW1_1	cluster_2	DP	10048	13747.863	13438	14095	197.7466	0.8065	0.3103	0.001	0.0004935	9643	104620	49.524	2578	28014	11.261	1001	10048	5.1988	16.6117	18.5074	39.5796
DP	HMG1_2	cluster_5	Common_I_DN	2214	26960.216	26888	27608	145.3441	0.8064	0.3104	0.001	0.0004935	24156	260182	67.088	13024	14276	21.2384	8088	2214	8.9232	16.5284	17.4266	45.4037
SP4	SOX1_3	cluster_5	Common_I_DN	8162	10133.03	10281	10391	170.1263	0.8063	0.3106	0.001	0.0004935	9130	52880	59.82	1259	14944	9.9855	5892	8162	5.1939	15.4935	16.4537	46.656
SP4	FYV1_1	cluster_5	Common_I_DN	8459	10492.032	10293	10675	111.3643	0.8062	0.3107	0.001	0.0004935	11580	105410	73.515	1549	14322	9.9855	5892	8459	5.1939	15.4935	16.4537	46.656
DN	FXL1_2	cluster_2	DP	4718	5853.654	5978	6206	120.5585	0.8061	0.3111	0.001	0.0004935	4351	4611	57.545	336	421	11.816	621	4718	5.8816	14.1313	15.0622	43.3113
SP4	FOKO1_5	cluster_2	DP	24480	30128.679	29834	30788	289.0748	0.8061	0.3111	0.001	0.0004935	25037	276688	58.01	4941	52812	11.072	2231	24480	5.1257	16.8058	18.5195	45.4009
SP8	CBX1_1	cluster_5	Common_I_DN	7320	9020.888	8829	9306	142.1026	0.8061	0.3111	0.001	0.0004935	4252	44829	61.603	1439	15113	11.981	1313	7320	5.1633	15.8454	17.1161	48.4351
SP4	FYV1_2	cluster_5	Common_I_DN	3771	4486.775	4527	4879	111.7129	0.8061	0.3114	0.001	0.0004935	3496	3879	54.96	737	944	11.607	298	3771	5.4607	14.8073	15.6675	43.1864
DN	SOX1_3	cluster_2	DP	4801	6070.021	6097	6249	109.2313	0.8059	0.3115	0.001	0.0004909	4326	46953	47.577	612	8564	9.757	339	4801	5.1359	15.3922	16.2645	45.3922
SP8	SP1_1	cluster_4	SP4	32380	40183.419	39836	40715	322.1366	0.8058	0.3115	0.001	0.0004909	49644	724818	65.702	4489	52629	26.005	2267	32380	5.9023	16.6087	18.5012	51.8669
SP4	HMG1_2	cluster_5	Common_I_DN	28978	35686.806	35528	36498	278.2051	0.8058	0.3118	0.001	0.0004909	30149	342049	62.621	4568	58064	21.444	2236	28978	10.704	17.2356	18.0933	49.9139
SP4	POU2F1_innov1	cluster_2	DP	4138	5184.794	5122	5604	140.4085	0.8056	0.3118	0.001	0.0004935	3160	57168	59.186	528	5922	9.651	242	4138	4.9111	16.682	17.5882	43.3692
SP4	FOKO1_3	cluster_2	DP	24776	30755.233	30316	31167	270.2612	0.8056	0.3119	0.001	0.0004935	21804	285200	58.247	4217	53359	20.898	1904	24776	5.061	16.4872	17.423	45.1506
SP8	SP1_innov4	cluster_2	DP	14409	17887.958	17515	18267	227.9643	0.8055	0.3122	0.001	0.0004935	14122	186719	57.152	3515	37124	9.717	1120	14409	4.4134	17.6221	18.5195	45.4199
DP	FOKO1_3	cluster_5	Common_I_DN	9208	9549.717	98778	61035	409.849	0.8054	0.3122	0.001	0.0004935	10120	27513	56.268	8509	107163	21.886	3713	9208	5.7307	17.6221	18.5195	45.4199
SP4	FOKO1_4	cluster_2	DP	2686	3461.148	3434	3598	81.1984	0.805	0.3123	0.001	0.0004935	2797	36450	71.99	405	4664	9.987	221	2686	5.1349	16.6433	17.5882	43.3692
DP	ATFA_2	cluster_5	Common_I_DN	6986	8658.794	8315	8880	141.6202	0.8048	0.3134	0.001	0.0004909	3457	41526	51.125	1471	17153	21.118	587	6986	6.5798	16.903	18.7988	39.9048
SP4	EPF2_1	cluster_2	DP	27926	22728.47	23528	27244	265.1703	0.8046	0.3136	0.001	0.0004909	31742	223293	55.874	3387	40236	10.001	3285	27926	4.4658	16.0327	17.9557	43.4578
SP4	MAP_innov10	cluster_2	DP	8802	11063.519	10760	11349	173.4449	0.8045	0.3139	0.001	0.0004909	8179	96221	59.023	1769	18966	11.598	815	8802	5.4375	16.3026	17.1456	46.8339
DP	NPFL_2	cluster_5	Common_I_DN	14545	11866.188	12451	12234	243.2912	0.8042	0.3143	0.001	0.0004935	15166	15665	57.716	3265	35992	21.765	8095	14545	9.6429	17.4406	18.2828	45.3574
DP	EK14_2	cluster_1	SP8	3584	4456.788	4212	4685	141.6212	0.8042	0.3144	0.001	0.0011429	2780	69669	25.728	1952	17453	6.4637	398	3584	5.1931	15.1591	16.2083	37.5552
SP4	CTCF_innov1	cluster_4	SP4	4252	5289.074	52164	53881	461.4881	0.8042	0.3145	0.001	0.0004935	7414	1061210	61.215	4057	48710	23.48	4252	4252	4.2373	16.8058	18.5195	45.4009
SP4	TBXL2_2	cluster_5	Common_I_DN	10992	13664.094	13360	13856	144.1233	0.8041	0.3146	0.001	0.0004935	11863	12611	61.805	11863	12611	11.909	9095	10992	5.1939	15.4935	16.4537	46.656
SP4	FOKO1_1	cluster_5	Common_I_DN	9639	11987.725	11712	12297	170.8053	0.8041	0.3146	0.001	0.0004935	10481	70700	44.693	3484	39294	17.655	387	9639	5.812	16.4008	17.3137	45.9485
SP8	FOXP1_1	cluster_5	Common_I_DN	10130	37440.409	37025	38156	438.5876	0.804	0.3147	0.001	0.0004935	15888	244896	61.1	1860	67880	27.459	1466	10130	7.7564	18.9466	20.1292	47.7904
SP4	TBXL_1	cluster_5	Common_I_DN	15784	19468.158	19259	19839	220.4661	0.8039	0.3147	0.001	0.0004935	12984	12918	57.124	1323	14286	11.9162	895	15784	5.1942	16.8058	18.5195	45.4009
DN	MAP_innov12	cluster_2	DP	11527	18805.715	18470	19165	206.587	0.8039	0.315	0.001	0.0004935	9889	12721	77.196	1524	24862	19.722	889	11527	6.6536	18.9992	18.8782	58.9855
DN	TBXL2_5	cluster_2	DP	22476	27960.193	27356	28388	246.3865	0.8039	0.315	0.001	0.0004935	16570	23871	79.218	2625	38253	11.334	4490	22476	6.0929	18.8533	19.7619	58.7036
SP4	CUX1_8	cluster_5	Common_I_DN	6262	7446.156	7524	7848	117.9628	0.8038	0.3151	0.001	0.0004935	5744	6644	60.288	717	8299	9.987	349	6262	5.1939	15.4935	16.4537	46.656
SP4	CUX1_8	cluster_5	Common_I_DN	1235	1517.636	1438	1637	61.6579	0.8033	0.316	0.001	0.0011429	944	8512	66.353	164	2468	18.582	748	1235	9.2983	14.5221	14.0134	48.1707
DP	NPFL_2	cluster_5	Common_I_DN	17733	22079.155	21723	22409	206.1567	0.8032	0.3162	0.001	0.0004909	9585	95962	53.327	4334	41855	23.259	1793	17733	9.8343	18.4972	19.3706	47.3677
DN	NPFL_2	cluster_5	Common_I_DN	9224	9624.18	9224	9623	118.8522	0.8031	0.3162	0.001	0.0004909	9636	10134	61.006	1326	1326	11.9162	7537	9224	5.1939	15.4935	16.4537	46.656
SP4	POU2F1_innov2	cluster_2	DP	3158	3933.24	3777	4091	98.1742	0.803	0.3166	0.001	0.0004935	3487	60114	63.183	495	5456	12.886	318	3158	4.3366	17.974	18.8722	47.3108
DP	RUNX_2	cluster_5	Common_I_DN	49889	62136.132	61883	62925	455.712	0.8029	0.3167	0.001	0.0004935	17488	245900	47.274	9707	132568	25.508	3577	49889	9.9394	20.3057	20.8497	51.6329
SP4	FOKO1_3	cluster_2	DP	29624	36481.87	36257	37425	307.6543	0.8029	0.3167	0.001	0.0004935	30746	40626	63.967	4636	52867	25.602	3423	29624	5.2837	16.8058	18.5195	45.4009
DN	NPFL_2	cluster_5	Common_I_DN	3073	3827.563	3671	3964	91.9288	0.8028	0.3168	0.001	0.0004935	3040	39849	67.778	479	5888	10.016	244	3073	5.2268	16.8058	17.7116	50.9395
SP4	SP1_innov4	cluster_2	DP	15582	19408.479	19006	19787	233.3329	0.8029	0.3168	0.001	0.0004935	15528	232166	62.03	2515	31724	9.7173	1207	15582	4.7277	17.7731	18.642	47.952
DP	NPFL_2	cluster_5	Common_I_DN	25452	31992.67	32045	24574	277.5056	0.8027	0.3171	0.001	0.0004935	24317	409519	57.166	3187	36984	17.272	18541	25452	9.6429	17.4406	18.2828	45.3574
SP8	HMG1_1	cluster_5	Common_I_DN	3533	4404.068	4294	4505	65.5771	0.8027	0.3172	0.001	0.0004935	3543	21381	63.056	1620	20853	15.93	1553	3533	5.1939	16.8219	16.524	49.6066
DP	EPFL_1	cluster_5	Common_I_DN	12797	15292.943	15640	16297	195.2206	0.8027	0.3178	0.001	0.001	7146	78795	61.175	2499	24842	20.56	1181	12797	9.9333	16.5207	17.3889	47.2589
SP8	HMG1_1	cluster_5	Common_I_DN	22613	28317.85	28313	28865	64.5401	0.8027	0.3178	0.001	0.0004935	21742	2702	4768	956	11370	23.029	1493	22613	5.1939	15.4935	16.4537	46.656
DN	RUNX_1	cluster_5	Common_I_DN	62266	76430.																			

SPR	KPZ_3	cluster_2	DP	3333	173523	4037	4789	91.4974	0.7944	-0.332	0.001	0.000435	5533	55334	62.869	728	6899	7.8102	342	3333	3.7792	6.111	6.0017	46.978	48.5112	
SPR	KCFL_1	cluster_5	Common_I	6098	41964	76492	17690	283.4551	0.7943	-0.333	0.001	0.000435	20934	20934	61.333	6098	6774	9.2628	6098	6774	9.2628	6.074	6.2066	49.822	50.7345	
DP	HVGL-Fill_1	cluster_5	Common_I	149726	18837.291	187006	190119	945.1849	0.7941	-0.3325	0.001	0.000435	43660	43660	86.8888	15822	16640	36.4049	22.329	7722	149726	7.1377	17.6876	13.7559	39.4705	
SPR	HMGAL_1	cluster_2	DP	1279	16111	1005	1489	148.5264	0.794	-0.3328	0.001	0.000435	3745	27802	66.657	417	2455	7.2402	214	1279	7.379	5.7143	5.6588	51.389	42.1028	
SPR	PNW02_1	cluster_2	DP	1222	16107	1005	1489	148.5264	0.794	-0.3328	0.001	0.000435	3745	27802	66.657	417	2455	7.2402	214	1222	7.379	5.7143	5.6588	51.389	42.1028	
SPR	KNX01_1	cluster_2	DP	1520	3175.097	3055	3338	68.9883	0.7937	-0.3333	0.001	0.000435	3449	34990	57.903	303	2580	5.2065	25.50	2402	4.3305	6.7396	6.4856	47.856	43.556	
SPR	PNW01_2	cluster_2	DP	1476	14660.809	14123	14750	185.0895	0.7936	-0.3335	0.001	0.000435	3911	109901	52.023	2578	28014	10.476	11476	5.4323	10.463	10.463	10.4221	40.1862	40.9652	
SPR	EVS_1	cluster_2	DP	1382	18013	3785	4136	97.8265	0.7936	-0.3335	0.001	0.000435	3805	4136	66.262	587	3127	6.6029	293	1382	6.6029	6.6029	6.6029	41.226	41.226	
DP	EFT_1	cluster_5	Common_I	8569	10800.231	10525	11063	162.4784	0.7934	-0.3338	0.001	0.000435	14150	54006	60.968	14868	20.445	67.869	16.2892	65.965	10.8687	8569	16.2892	15.8668	47.3988	45.3988
SPR	EVS_know13	cluster_4	SP4	8168	10596.278	10026	10546	175.8214	0.7933	-0.334	0.001	0.000435	10079	16174	66.163	1019	15787	9.6474	516	8168	9.3465	11.1196	11.196	50.6379	48.6379	
SPR	KW01_4	cluster_5	Common_I	126	1602.646	1602	1625	215.7153	0.7932	-0.3342	0.001	0.000435	1602	1602	80.975	1602	1602	16.02	1602	16.02	16.02	16.02	16.02	16.02	16.02	15.833
SP4	TKX1_1	cluster_2	DP	9263	11678.371	11957	12000	201.5446	0.7932	-0.3343	0.001	0.000435	1066	109292	57.806	1217	20900	10.9433	7482	9991	14.9973	20.7579	20.7579	37.1704	37.1704	
SPR	LMQ1_2	cluster_5	Common_I	7951	10033.222	9950	10167	495.5513	0.7929	-0.3348	0.001	0.000435	3542	39412	47.125	2579	19801	21.2566	20.758	7951	15.8575	15.8575	15.8575	36.5739	36.5739	
SPR	GM01_3	cluster_5	Common_I	358	4646.7	4647	4616	345.1007	0.7928	-0.3353	0.001	0.000435	4616	4616	60.236	4616	4616	46.16	4616	46.16	46.16	46.16	46.16	46.16	46.16	45.334
SPR	AT4_2	cluster_2	DP	3503	4421.086	4211	3958	110.4203	0.7924	-0.3357	0.001	0.000435	3978	47794	58.841	650	7408	9.9466	283	3503	4.3127	7.8655	7.8284	45.0769	46.0436	
SP4	PNW03_3	cluster_2	DP	11348	14324.512	14006	14661	199.4942	0.7922	-0.336	0.001	0.000435	10156	119004	52.742	2518	27400	16.3702	201	11348	13.0042	13.0042	13.0042	40.5481	41.4955	
SPR	FTV_1	cluster_2	DP	2093	29537.317	28779	29561	27.9034	0.7921	-0.3364	0.001	0.000435	24471	229674	61.771	6844	94660	12.718	2562	2093	5.2014	10.0567	10.0567	40.8979	40.8979	
DN	RUNK1_4	cluster_1	SP8	2814	3554.05	3436	3674	73.1725	0.7918	-0.3367	0.001	0.000435	3683	37261	73.637	512	4875	20.202	286	2814	15.6212	7.9642	7.9521	55.894	56.7882	
SP4	HMGAL_2	cluster_5	Common_I	12630	19561.046	19566	16259	182.5379	0.7918	-0.3368	0.001	0.000435	5885	82554	67.162	1898	24920	20.111	936	12630	10.5049	15.2991	15.2991	49.3151	51.0922	
DN	PNW02_know10	cluster_5	Common_I	7291	9028.39	9021	8991	218.1055	0.7918	-0.3368	0.001	0.000435	5130	46258	65.552	1584	14748	20.262	7291	10.217	15.7636	15.7636	48.8717	49.4372		
SPR	SOX4_1	cluster_2	DP	15861	20032.188	19217	20431	253.1346	0.7918	-0.3368	0.001	0.000435	11796	191882	60.682	2224	34044	10.811	994	15861	9.4087	8.4337	8.3006	46.942	46.887	
SP4	SOX1_3	cluster_5	Common_I	8356	10554.064	10235	10628	169.1055	0.7918	-0.3369	0.001	0.000435	3663	54981	62.433	1244	17494	19.865	577	8356	14.9388	15.7521	15.198	46.3826	47.7649	
SPR	SOX2_4	cluster_5	Common_I	8029	10510.317	10279	10628	169.1055	0.7918	-0.3369	0.001	0.000435	3663	54981	62.433	1244	17494	19.865	577	8029	14.9388	15.7521	15.198	46.3826	47.7649	
DP	TCF_know1	cluster_5	Common_I	193887	244886.564	243230	246117	944.7875	0.7916	-0.3372	0.001	0.000435	55720	1030489	59.443	2322	43334	19.587	10521	193887	11.173	16.956	16.956	45.683	46.6363	
DP	TCF_1	cluster_2	DP	15671	19799.573	19355	20221	254.2812	0.7915	-0.3374	0.001	0.000435	11748	188705	67.707	2202	32593	10.658	987	15671	7.1145	8.9045	8.9045	46.9553	48.0809	
DN	SOX1_1	cluster_2	DP	3086	3001.919	3786	4055	92.4205	0.7915	-0.3376	0.001	0.000435	2538	40830	73.556	376	5627	10.187	3086	5.6568	7.5954	7.5954	53.7234	54.6427		
DP	FTV_1	cluster_5	Common_I	40794	51554.089	50957	52086	351.2295	0.7913	-0.3377	0.001	0.001	25386	228951	51.568	11316	100370	22.607	4531	40794	9.1883	17.8484	17.8484	40.407	40.7439	
SP4	SOX_4	cluster_5	Common_I	12571	15886.373	15256	16233	204.9482	0.7913	-0.3377	0.001	0.000435	10050	80252	62.068	1850	26308	20.347	860	12571	9.7227	16.6058	16.6058	46.4865	47.6886	
DP	SHAD_1	cluster_5	Common_I	14048	17906.2756	17492	17896	222.5814	0.7912	-0.3378	0.001	0.000435	16612	16113	76.255	2093	32229	10.779	14048	11.5169	13.4467	13.4467	58.217	58.217		
SPR	SXI_know1	cluster_2	DP	2502	3164.072	31295	31928	200.9872	0.7912	-0.3378	0.001	0.001	38052	267768	57.339	7958	55408	11.865	3555	2502	9.3425	15.8425	15.8425	44.472	45.1604	
SPR	SOX1_9	cluster_5	Common_I	6845	8633.143	8386	8903	164.3127	0.7912	-0.3381	0.001	0.000435	3412	47797	56.857	1188	15642	18.607	648	6845	14.321	14.9899	14.9899	45.7795	46.6363	
SPR	SOX1_9	cluster_5	Common_I	6845	8633.143	8386	8903	164.3127	0.7912	-0.3381	0.001	0.000435	3412	47797	56.857	1188	15642	18.607	648	6845	14.321	14.9899	14.9899	45.7795	46.6363	
SPR	HPL_1	cluster_2	DP	455	5720.517	5511	5953	141.4661	0.7911	-0.3383	0.001	0.000435	4130	63662	59.134	300	30552	9.3371	300	455	4.2032	7.2839	7.2839	42.6743	43.5134	
SPR	HPL_1	cluster_5	Common_I	54293	68443.338	68045	69236	398.1619	0.7909	-0.3383	0.001	0.000435	29633	268120	45.899	16091	103882	25.744	6032	54293	10.2943	20.2495	20.2495	35.6902	36.1054	
DN	TKX1_4	cluster_5	Common_I	1034	10971.13	11786	11854	198.6219	0.791	-0.3384	0.001	0.000435	1034	10971	67.364	1034	10971	10.971	1034	10.971	10.971	10.971	10.971	10.971	10.971	10.971
SPR	SOX1_3	cluster_5	Common_I	6575	8311.177	8047	8544	152.9159	0.7909	-0.3384	0.001	0.000435	6922	41440	55.348	1186	14565	20.591	485	6575	8.7375	15.7867	15.7867	40.8938	42.4343	
SPR	MAF0_1	cluster_2	DP	11567	14627.519	14140	15107	271.1711	0.7908	-0.3386	0.001	0.000435	2075	120737	52.864	1475	20881	12.295	548	11567	10.645	9.6029	9.6029	39.9912	41.1916	
SPR	SOX2_2	cluster_5	Common_I	4334	5023.012	5041	5190	121.7999	0.7908	-0.3387	0.001	0.000435	4334	5041	61.937	4334	5041	50.41	4334	43.34	43.34	43.34	43.34	43.34	43.34	43.34
SP4	SOX_2	cluster_5	Common_I	12256	15499.707	15117	15394	209.6513	0.7907	-0.3387	0.001	0.000435	5294	79524	62.195	1805	26566	20.065	840	12256	15.853	17.4117	17.4117	47.7705	48.7287	
SP4	TKX_2	cluster_2	DP	11860	15001.01	14835	15394	224.0102	0.7906	-0.3389	0.001	0.000435	6031	131760	58.982	1423	22905	11.596	630	11860	5.9001	9.1027	9.1027	44.2727	45.7825	
SP4	TKX_2	cluster_5	Common_I	11860	15001.01	14835	15394	224.0102	0.7906	-0.3389	0.001	0.000435	6031	131760	58.982	1423	22905	11.596	630	11860	5.9001	9.1027	9.1027	44.2727	45.7825	
SPR	GM02_2	cluster_5	Common_I	4673	5623.617	5624	5755	128.5644	0.7906	-0.3394	0.001	0.000435	4673	5624	67.877	4673	5624	56.24	4673	46.73	46.73	46.73	46.73	46.73	46.73	46.73
SPR	TKX0_2	cluster_5	Common_I	2673	31175.077	30724	21611	264.5722	0.7902	-0.3397	0.001	0.000435	5480	9825	56.841	2226	38036	21.877	945	10733	9.6344	17.2445	17.2445	42.4528	43.9024	
SPR	GM02_2	cluster_2	DP	16036	3398.754	3148	3437	88.8772	0.7901	-0.34	0.001	0.001	2773	38777	66.35	402	9500	9.1108	200	2606	7.006	7.2124	7.2124	31.604	31.604	
SPR	ATX1_1	cluster_5	Common_I	5596	7199.666	7199	7006	147.846	0.7901	-0.34	0.001	0.000435	7006	7199	60.696	7006	7199	70.696	5596	55.96	55.96	55.96	55.96	55.96	55.96	55.96
SP4	SOX1_4	cluster_2	DP	2386	3020.563	2878	3171	90.2088	0.79	-0.3401	0.001	0.001	2135	37760	62											

SPR	KF21_2	cluster_2	DP	13266	16994.994	16171	17284	177.1219	0.7806	0.3574	0.001	0.0004035	20077	183023	59.485	3711	22886	8.644	5672	13266	4.8006	8.2093	8.1375	45.9254	45.9254	
SPR	KF7 know26	cluster_2	DP	4201	16464.19	16171	16456	121.0317	0.7806	0.3574	0.001	0.0004035	38443	50078	57.839	5521	7502	5.652	10.567	4201	16456	6.6766	8.1375	45.9254	45.9254	
SPR	MAP know1	cluster_2	DP	7802	10000.325	8008	10178	115.0375	0.7802	0.3581	0.001	0.0004035	16643	98658	52.897	3185	18963	4.1034	7902	1801	7802	4.1831	8.1375	45.9254	45.9254	
SPR	SPF know1	cluster_2	DP	21932	27422.121	26932	27937	299.6293	0.7801	0.3583	0.001	0.0004035	36452	130068	59.214	2638	13769	21.392	9188	1269	21932	9.6888	16.2633	44.1391	44.1391	
SPR	FK002_1	cluster_2	DP	11000	12700.72	12007	14533	185.1801	0.78	0.3585	0.001	0.0004035	11000	81895	47.824	2132	11000	8.74	11000	874	11000	8.74	11.0004	45.9254	45.9254	
SPR	SP1 know2	cluster_4	SP4	59274	75994.042	75327	76960	404.742	0.78	0.3585	0.001	0.0004035	116483	1617881	91.388	4802	109754	4.8428	98274	4488	59274	2.6154	3.81	52.7078	52.7078	
SPR	SMAD_1	cluster_4	Common_1	25234	28986.903	28547	29286	222.6583	0.7798	0.3588	0.001	0.0004035	15801	126448	57.942	6404	50126	22.889	2829	25234	3.4027	17.9039	18.2008	44.1755	44.1755	
SPR	HES1_1	cluster_2	DP	2292	16464.19	16171	16456	121.0317	0.7806	0.3574	0.001	0.0004035	18124	24767	55.64	3524	21047	10.567	21047	2292	2292	10.567	10.567	18.0633	18.0633	
SP4	FK003_1	cluster_2	DP	6014	7713.295	7509	7931	132.9962	0.7797	0.359	0.001	0.0004035	5633	74003	67.715	965	11860	10.852	474	6014	6.014	8.6147	8.1375	45.9254	45.9254	
SP4	TC4_1	cluster_2	DP	60670	7714.777	77211	78426	400.4488	0.7797	0.3591	0.001	0.0004035	74134	299877	45.72	19242	171202	26.108	6740	60670	5.9232	20.3171	35.0275	50.7083	50.7083	
SP4	WHF1_4	cluster_2	DP	9009	7566.246	76055	76450	165.0554	0.7795	0.3584	0.001	0.0004035	8433	903	6234	10.567	7119	6234	10.567	9009	9009	10.567	10.567	18.0633	18.0633	
SPR	SOX1_2	cluster_5	Common_1	7439	9602.032	9522	10062	161.7594	0.7794	0.3597	0.001	0.0004035	3888	51655	58.162	1332	17389	15.518	566	7439	8.6013	15.3493	14.7885	45.9254	45.9254	
SPR	POU2_3	cluster_5	Common_1	8166	10480.649	10219	10789	167.0002	0.7792	0.36	0.001	0.0004035	3486	54118	58.145	1332	18511	15.888	554	8166	8.7737	15.449	15.0892	42.3871	42.3871	
SPR	SOX2_2	cluster_5	Common_1	6823	7419.288	7427	7602	98.6209	0.7791	0.3601	0.001	0.0004035	6823	8400	59.2999	641	6823	11.551	5089	641	6823	9.2999	17.439	15.0892	45.9254	45.9254
SP4	FKF2_2	cluster_5	Common_1	6407	8226.138	8048	8414	109.806	0.7789	0.3605	0.001	0.0004035	3688	36980	61.725	1427	13658	22.797	675	6407	8.2261	17.1233	17.3256	45.9254	45.9254	
SPR	PNFK1_1	cluster_2	DP	15870	20389.92	19924	20804	270.5884	0.7788	0.3606	0.001	0.0004035	11088	174415	56.273	2530	30762	10.567	1058	15870	10.676	19.702	18.1122	41.1968	41.1968	
SPR	FK001_2	cluster_2	DP	2484	1389.661	3088	3301	431.6682	0.7788	0.3606	0.001	0.0004035	4518	27108	59.623	909	5388	11.851	2484	417	2484	5.6184	9.2297	9.1683	45.9254	45.9254
SPR	FK1_4	cluster_2	DP	1911	2480.052	2357	2604	74.1975	0.7787	0.3609	0.001	0.0004035	2771	31106	57.753	407	43176	8.1173	177	1911	1.5852	6.3876	4.6708	44.1674	44.1674	
DN	ARID1_1	cluster_2	DP	5629	7231.309	7036	7419	111.5651	0.7785	0.3613	0.001	0.0004035	5946	77508	76.405	781	9708	9.5688	443	5629	5.5489	7.4504	7.2625	56.7222	57.9831	
SPR	FK14_2	cluster_2	DP	7530	9674.296	9666	9942	163.1877	0.7784	0.3615	0.001	0.001	6676	86796	61.84	1240	15740	11.203	582	7530	5.3933	8.7178	8.1665	46.9355	46.9355	
SP4	FK3_1	cluster_2	DP	5565	7151.383	6857	7407	171.6495	0.7782	0.3618	0.001	0.001429	6730	56640	26.22	2187	16761	618	5565	10.9565	20.139	5.9655	15.2522	20.3303	45.9254	45.9254
SP4	TK1_4	cluster_2	DP	15147	19465.111	18980	19937	281.3311	0.7782	0.3618	0.001	0.0004035	8929	170354	58.182	1881	34050	11.629	804	15147	1.5792	9.0044	8.8915	42.742	44.8486	
DN	FTV1_1	cluster_2	SP8	2208	2953.555	2771	3140	208.4762	0.7781	0.3619	0.001	0.0004035	5550	48295	25.577	3330	11627	6.5659	256	2208	1.2168	4.765	4.7573	15.2542	15.2542	
DP	KF12_1	cluster_5	Common_1	19955	26565.661	25352	25959	179.7191	0.7778	0.3623	0.001	0.001	19413	116478	59.073	7375	48670	21.148	3338	19955	10.132	17.547	17.132	45.261	45.261	
SPR	SOX14_3	cluster_5	Common_1	6867	8828.949	8568	9101	154.7099	0.7778	0.3625	0.001	0.0004035	3228	42520	55.339	1254	14654	20.123	507	6867	8.9687	9.3986	15.7963	40.4306	40.4306	
SPR	FK001_2	cluster_5	Common_1	2484	1389.661	3088	3301	431.6682	0.7788	0.3606	0.001	0.0004035	3179	54200	66.243	1050	10482	20.144	409	2484	5.909	15.6568	15.0793	45.9254	45.9254	
SPR	FK5_4	cluster_5	Common_1	3886	23644.023	23112	24180	311.5818	0.7776	0.3629	0.001	0.0004035	5438	109382	56.634	2353	42538	22.025	978	3886	9.5396	16.806	15.464	43.2225	43.2225	
SP4	ARID1_2	cluster_2	DP	4405	5666.459	5472	5875	123.8077	0.7774	0.3632	0.001	0.0004035	4639	60416	59.556	781	9708	9.5688	347	4405	4.3423	7.2911	7.2911	44.4302	44.4302	
SPR	BATF know1	cluster_2	DP	3339	4296.159	4126	4479	112.9717	0.7773	0.3637	0.001	0.0004035	38443	50078	57.839	5521	7502	5.652	10.567	3339	3339	5.652	6.6766	6.6766	18.0633	18.0633
SPR	TK10_1	cluster_5	Common_1	10230	14789.945	13773	14610	244.6984	0.7772	0.3637	0.001	0.0004035	36119	68942	53.926	1515	27072	12.922	1100	10230	8.9198	16.3028	15.9845	40.7678	40.7678	
SPR	FKP1_1	cluster_5	Common_1	14378	18016.812	18244	18755	167.3647	0.777	0.364	0.001	0.0004035	10911	76393	53.125	5166	35199	24.478	207	14378	9.8987	18.199	18.8211	40.2643	40.2643	
SPR	SMAD1_1	cluster_5	Common_1	1411	17917.975	17971	18179	197.1355	0.7767	0.3642	0.001	0.0004035	1411	17917	197.1355	0.7767	0.3642	0.001	0.0004035	1411	17917	197.1355	0.7767	0.3642	0.001	0.0004035
DP	SMAD1_1	cluster_5	Common_1	61542	79209.651	76537	79983	406.1964	0.777	0.3641	0.001	0.001	25085	356038	57.788	26007	183996	22.463	4372	61542	9.8878	17.2852	14.4287	43.3773	43.3773	
SP4	FK3_2	cluster_2	DP	5419	6974.752	6644	7230	127.6974	0.777	0.3641	0.001	0.001429	5707	55145	26.227	2093	20781	12.737	7093	5419	2.5872	10.9739	9.8208	20.147	20.147	
SPR	HES1_2	cluster_2	DP	2484	1389.661	3088	3301	431.6682	0.7788	0.3606	0.001	0.0004035	19488	21349	108.513	17873	104839	8324	19488	19488	108.513	17873	104839	8324	19488	
SPR	HES1_1	cluster_4	SP4	14194	18271.387	17898	18633	218.9854	0.7769	0.3643	0.001	0.001	25160	356066	63.862	2115	29879	5.926	1031	14194	2.5433	8.0033	7.9825	47.8014	47.8014	
SPR	MAP know10	cluster_2	DP	8103	10341.142	10170	10677	155.7077	0.7768	0.3644	0.001	0.0004035	8765	91208	55.774	7169	13966	11.598	739	8103	9.4951	8.9185	8.8841	41.775	42.7328	
DN	FTV1_2	cluster_2	DP	11887	1817.812	18095	11599	213.8484	0.7767	0.3645	0.001	0.0004035	94937	104839	56.383	49873	62529	29.797	4976	11887	11.887	12.152	11.9192	45.9254	45.9254	
SP4	SOX14_4	cluster_5	Common_1	4794	6172.208	5938	6392	130.1839	0.7767	0.3645	0.001	0.001429	2335	32728	39.319	840	10927	19.805	360	4794	8.689	15.4576	14.6448	42.871	42.871	
SPR	ARID1_2	cluster_5	Common_1	9612	12375.288	12126	12649	165.7002	0.7767	0.3645	0.001	0.0004035	4547	59233	58.39	1743	21717	21.408	733	9612	9.4752	16.2274	15.4604	44.2603	44.2603	
DN	FTV1_3	cluster_2	DP	1229	16464.19	16171	16456	121.0317	0.7806	0.3574	0.001	0.0004035	1229	16456	121.0317	0.7806	0.3574	0.001	0.0004035	1229	16456	121.0317	0.7806	0.3574	0.001	0.0004035
DN	TK5_3	cluster_2	DP	3777	17705.524	17443	18582	198.0308	0.7764	0.3651	0.001	0.001	15391	138870	55.58	3840	52120	19.967	1540	3777	5.6975	10.6058	9.9495	42.9545	42.9545	
DP	TCF12 know7	cluster_3	DN	15969	20574.773	20020	21033	251.7788	0.7762	0.3656	0.001	0.0004035	10010	140599	49.374	3148	42486	14.52	1154	15969	5.6078	11.5285	11.3578	36.6582	37.5865	
SPR	POU2F2 know1	cluster_5	Common_1	6249	7854.546	7794	8092	125.8673	0.7762	0.3656	0.001	0.0004035	6249	7854	125.8673	0.7762	0.3656	0.001	0.0004035	6249	7854	125.8673	0.7762	0.3656	0.001	0.0004035
SP4	CKS1_1	cluster_5	Common_1	7408	9551.024	9372	9780	136.2342	0.7756	0.3665	0.001	0.0004035	3180	57168	59.186	1186	15826	20.529	506	7408	8.655	9.1468	15.4545			

SP8	FK13_1	cluster_4	SP4	16733	21003194	21401	22240	2416833	0.7675	0.3818	0.001	0.001	20927	306883	65.363	2092	34137	6.1829	990	16733	9.0607	4.7026	4.6397	47.3231	49.0172		
SP8	FKW_1	cluster_4	Common_1	118084	168084	118084	21232	2225577	0.7674	0.3818	0.001	0.001	21958	306883	65.363	2092	34137	6.1829	990	118084	9.0607	4.7026	4.6397	47.3231	49.0172		
SP4	SOX1_3	cluster_5	Common_1	6755	8802599	8534	9085	1603224	0.7674	0.3819	0.001	0.0010909	1151	44155	58.678	15585	20951	51.001	15897	6755	15897	6.1829	4.7026	4.6397	47.3231	49.0172	
SP4	SOX1_1	cluster_5	Common_1	2740	3571634	35133	36287	3474583	0.7674	0.3819	0.001	0.0010435	3178	130904	65.17	3781	5189	19.493	1749	2740	8376	14.0029	8.0366	46.2528	48.1545	48.1545	
SP4	SOX1_2	cluster_5	Common_1	6908	8808	8808	1270	1715573	0.7674	0.382	0.001	0.0010909	6808	49487	60.667	19028	24887	60.667	877	6908	8808	9.0607	4.7026	4.6397	47.3231	49.0172	
SP8	NVC_know13	cluster_5	Common_1	27009	22427016	23065	22806	2394173	0.7673	0.3821	0.001	0.0010909	9108	146219	58.829	21315	1576	17000	9.6227	17491	27009	9.6227	17.491	17.0023	42.4226	43.1803	
SP8	TKB2_6	cluster_5	Common_1	13903	31152132	30567	31727	3394013	0.7673	0.3821	0.001	0.0010909	8080	145632	57.226	3242	3424	55459	19.793	1340	23903	9.3927	16.6088	16.6088	41.3325	41.3325	
SP4	TKB2_7	cluster_5	Common_1	6910	9058652	89669	91479	5828939	0.7674	0.3824	0.001	0.0010435	21468	35425	46.199	19763	15449	49.812	6910	89669	9.0607	4.7026	4.6397	47.3231	49.0172		
DN	FK1_1	cluster_2	DP	5526	7204482	7925	7442	1511235	0.767	0.3827	0.001	0.0011429	6350	57929	59.539	3907	27373	12.671	615	5526	2.5881	9.685	9.685	47.3231	49.0172		
DN	FK121_MAF3_1	cluster_2	Common_1	3000	39190093	38425	39860	4193539	0.7668	0.383	0.001	0.0010435	8480	177761	54.694	3722	3722	73540	22.627	1451	3000	9.3927	17.2123	17.2123	46.9058	46.9058	
SP8	FKR3_know11	cluster_5	Common_1	5656	7126	7126	5656	2171653	0.7668	0.3822	0.001	0.0010909	5656	7126	7126	5656	7126	5656	7126	5656	5656	7126	7126	5656	7126	5656	7126
SP8	FOU27_know14	cluster_5	Common_1	2198	2868508	2746	3009	856672	0.7662	0.3842	0.001	0.0012632	182	14244	63.304	353	4849	21.55	154	2198	9.7815	16.948	16.948	45.1411	45.1411		
SP8	NPB1_2	cluster_5	Common_1	9948	12985138	12848	13373	2419522	0.7661	0.3844	0.001	0.0010435	2605	6114	61.418	917	20992	21.766	441	9948	10.385	16.602	16.602	46.2645	46.2645		
SP4	TKB_2	cluster_2	DP	1422	1912114	18282	18932	1910061	0.7661	0.3846	0.001	0.0010909	1422	19121	19121	1422	19121	1422	19121	1422	1422	19121	19121	1422	19121	1422	
SP4	TKB_5	cluster_2	DP	9856	1286804	12521	12326	2171305	0.7660	0.3848	0.001	0.0010435	5927	114930	59.04	1223	22231	31.51	745	9856	5.1031	11.51	11.51	48.643	48.643		
SP8	TKB2_2	cluster_2	DP	11137	14543467	14073	14974	2623246	0.7658	0.385	0.001	0.0010909	6718	127933	57.209	1223	23905	15.596	595	11137	8.8768	8.7053	8.7053	42.9917	42.9917		
SP4	TKB_2	cluster_2	DP	6910	9058652	89669	91479	5828939	0.7656	0.3854	0.001	0.0010435	21468	35425	46.199	19763	15449	49.812	6910	89669	9.0607	4.7026	4.6397	47.3231	49.0172		
SP8	RF_know14	cluster_5	Common_1	41602	54479802	53709	55238	457844	0.7653	0.3859	0.001	0.001	11279	278424	63.239	4593	4931	20244	2047	41602	9.6227	16.608	16.608	46.9466	46.9466		
SP4	FOXO_4	cluster_2	DP	2256	2948391	2796	3096	907804	0.7651	0.3863	0.001	0.0010909	2354	30079	61.609	405	4964	9.9687	17	2256	4.5305	7.3536	7.3536	41.7037	41.7037		
SP8	SPB2_5	cluster_5	Common_1	38337	24323248	23208	24256	2817465	0.7651	0.3865	0.001	0.001	8667	121796	70.334	2561	34933	20.183	3335	38337	10.71	15.272	15.272	47.1261	47.1261		
SP4	NPB1_1	cluster_5	Common_1	14673	19128335	18863	19409	1687394	0.765	0.3865	0.001	0.0010435	11294	79074	54.99	5146	35199	24.788	2110	14673	13.046	18.8225	18.8225	41.0027	41.0027		
DN	HMG2_1	cluster_2	DP	4626	6114791	5879	6348	1359246	0.7647	0.387	0.001	0.0010435	5565	78950	63.498	3473	3059	8.164	463	4626	3.6135	5.991	5.991	44.4041	44.4041		
SP4	FOU27_know11	cluster_5	Common_1	7009	9637297	8948	9391	1447321	0.7646	0.3872	0.001	0.0010435	4718	47310	63.382	3521	14781	19.802	712	7009	9.39	15.011	15.011	48.4235	48.4235		
SP8	SOX2_5	cluster_5	Common_1	7369	9637297	9327	9951	1762384	0.7646	0.3872	0.001	0.0010909	3178	50901	57.693	1164	17820	19.586	481	7369	8.8319	15.2634	15.2634	42.6447	42.6447		
DN	FK121_MAF2_1	cluster_2	DP	4626	6114791	5879	6348	1359246	0.7647	0.387	0.001	0.0010435	5565	78950	63.498	3473	3059	8.164	463	4626	3.6135	5.991	5.991	44.4041	44.4041		
SP4	TKB1_1	cluster_5	Common_1	22025	17115485	16808	17424	28010704	0.7645	0.3874	0.001	0.0010435	7076	78921	55.429	2777	23759	22.128	1287	22025	16.775	16.695	16.695	46.5056	46.5056		
SP4	TKB15_1	cluster_5	Common_1	11465	14999548	14625	15404	235603	0.7644	0.3877	0.001	0.0010435	3151	72708	56.872	515	11465	8.6779	11.716	11465	10.657	15.7686	15.7686	40.335	40.335		
SP8	SMAD_2	cluster_2	DP	18959	2477313	24386	25168	2326707	0.7643	0.3877	0.001	0.0010435	21409	221006	55.883	4479	45031	11.315	1858	18959	4.8578	8.6786	8.6786	41.4825	41.4825		
SP8	TKB2_1	cluster_2	DP	24160	21602796	21043	21232	2225577	0.7643	0.3877	0.001	0.0010435	24160	21602	21602	24160	21602	24160	21602	24160	21602	21602	21602	24160	21602	24160	21602
SP4	TKB2_2	cluster_5	Common_1	14765	19118485	18978	19567	2017877	0.7643	0.3878	0.001	0.0010909	9607	90775	56.983	3547	34386	21.586	1484	14765	9.2886	14.6775	14.6775	46.2655	46.2655		
SP8	SOX1_2	cluster_5	Common_1	5512	7212722	7009	7441	1339004	0.7642	0.3879	0.001	0.0010909	2930	41032	62.844	3919	11986	18.252	412	5512	9.3927	14.0014	14.0014	48.8313	48.8313		
SP4	SOX1_1	cluster_5	Common_1	3621	4611	4611	1037	1148484	0.7642	0.388	0.001	0.0010909	3621	4611	4611	3621	4611	3621	4611	3621	3621	4611	4611	3621	4611	3621	
DP	LMO2_1	cluster_2	DP	8863	11577827	114971	11648	4840096	0.7641	0.3882	0.001	0.001	40006	452099	54.045	21173	8003	8863	10.475	16.948	10.475	16.948	16.948	16.948	45.9672	45.9672	
SP4	FOXO_1	cluster_2	DP	16491	21842315	21067	22097	3170729	0.7641	0.3882	0.001	0.0010435	11022	256998	66.218	1880	37085	9.5554	737	16491	4.2991	7.026	7.026	41.4081	41.4081		
SP4	TKB1_2	cluster_5	Common_1	2127	2898	2898	2898	3303611	0.7641	0.3882	0.001	0.0010909	2127	2898	2898	2127	2898	2127	2898	2127	2127	2898	2898	2127	2898	2127	
DP	FKR1_know12	cluster_5	Common_1	31043	147977112	146485	148989	6162003	0.7639	0.3885	0.001	0.001	50191	833460	66.56	25749	82789	18.196	9963	31043	9.0276	13.831	13.831	45.9611	45.9611		
DP	FOXO2_know12	cluster_5	Common_1	6944	9090318	8996	9289	1210213	0.7639	0.3886	0.001	0.0010435	6443	46514	63.727	1513	14607	20.012	708	6944	5.1336	12.2488	12.2488	46.7904	46.7904		
SP4	TKB1_3	cluster_5	Common_1	6049	8402469	8408	8409	1290202	0.7639	0.3886	0.001	0.0010909	6049	8409	8409	6049	8409	6049	8409	6049	6049	8409	8409	6049	8409	6049	
SP4	SOX4_1	cluster_5	Common_1	29571	38850248	38301	39371	3241392	0.7637	0.3889	0.001	0.0010435	12657	20511	65.153	4095	61800	19.626	1800	29571	9.4227	14.9228	14.9228	46.1538	46.1538		
SP4	TKB2_2	cluster_5	Common_1	15515	19793105	19471	20126	1915634	0.7637	0.389	0.001	0.0010909	9302	93336	58.465	3547	34386	21.586	1523	15515	9.4227	16.229	16.229	42.9377	42.9377		
SP4	TKB2_know5	cluster_5	Common_1	2193	8402469	8408	8409	1290202	0.7637	0.389	0.001	0.0010909	2193	8409	8409	2193	8409	2193	8409	2193	2193	8409	8409	2193	8409	2193	
SP8	PNDO2_2	cluster_5	Common_1	21340	27957362	27483	28442	2794841	0.7633	0.3897	0.001	0.0010435	10799	118886	64.204	5999	21340	23.55	13989	21340	17.952	17.8002	17.8002	47.2419	47.2419		
SP4	MAF_know12	cluster_2	DP	11501	15069133	14719	15448	2284829	0.7632	0.3898	0.001	0.0010435	7997	135675	61.511	5254	24882	11.272	848	11501	5.2142	8.7664	8.7664	48.8819	48.8819		
SP4	TKB1_4	cluster_5	Common_1	20224	26109744	26046	26258	2852883	0.7632	0.3899	0.001	0.0010909	20224	26109	26109	20224	26109	20224	26109	20224	20224	26109	26109	20224	26109	20224	
DP	FKV_1	cluster_5	Common_1	2841	31171838	30919	31839	2650346	0.7631	0.39	0.001	0.0010435	1556	154289	62.346	6800	6080	20.38	2390	2841	6.1126	11.599	11.599	39.3052	39.3052		
SP8	FKR3_3	cluster_4	SP4	18971	24862743	24485	25257	2345357																			

SP4	TK8_3	cluster_5	Common_I_1	23040	1005311392	30351	30987	2326092	0.7542	-0.0071	0.001	0.001	15391	138870	55.98	6304	55260	22.308	2578	23040	9.301	16.75	16.615	40.8947	41.6938	
SP4	TK8_4	cluster_5	Common_I_1	4700	18691325	14000	19200	2381261	0.7521	-0.0109	0.001	0.001	4900	39880	60.137	4488	128.800	0.7541	-0.0071	0.001	4700	18691	14000	19200	40.8947	41.6938
SP4	RUN4_4	cluster_5	Common_I_1	4020	6392556	6199	6599	1062647	0.754	-0.0073	0.001	0.001	3165	32119	63.475	1002	10306	26.103	484	4020	63926	6199	6599	15.283	15.0067	
SP4	SMAD_2	cluster_5	Common_I_1	3808	5185322	53306	52348	1316478	0.754	-0.0073	0.001	0.001	20405	227820	57.244	9075	91574	20.37	3794	3808	51853	53306	52348	17.1618	17.1887	
SP4	PCF11_innov1	cluster_5	Common_I_1	3008	40012	40012	40012	40012	0.7542	-0.0073	0.001	0.001	14512	14512	60.022	5779	5779	20.022	14512	3008	40012	40012	40012	16.5006	16.5006	
SP4	RUN1_2	cluster_5	Common_I_1	10154	18522085	13224	13812	1839336	0.7539	-0.0076	0.001	0.001	45470	71425	63.114	15633	12215	15.0823	673	10154	1852209	13224	13812	14.7223	14.9008	
SP4	TCF4_1	cluster_5	Common_I_1	4075	61120328	60669	61610	2954042	0.7538	-0.0077	0.001	0.001	34730	249719	53.636	10334	10334	24.587	6410	4075	6112033	60669	61610	18.4507	18.2504	
SP4	PCF2_1	cluster_5	Common_I_1	4082	468287	46828	46828	46828	0.7537	-0.0078	0.001	0.001	65452	364335	57.931	140709	140709	56.465	5445	4082	468288	46828	46828	18.8879	18.8879	
SP4	FOXO_2	cluster_2	DP	6485	8066103	8550	8884	158215	0.7535	-0.0082	0.001	0.001	61512	63594	50.524	11117	13917	10.876	502	6485	8066104	8550	8884	10.9617	10.9617	
SP4	SMAD_1	cluster_5	Common_I_1	22220	29489335	29164	29835	2076938	0.7535	-0.0083	0.001	0.001	16252	129249	59.226	6404	50170	22.989	2789	22220	2948934	29164	29835	17.1916	17.1916	
SP4	PCF1_1	cluster_5	Common_I_1	8020	11499188	11499	11499	11499	0.7535	-0.0083	0.001	0.001	11415	11927	154.441	0.7535	-0.0083	0.001	8020	11499	8020	11499	11499	11499	15.4204	15.4204
DP	RF12_2	cluster_5	Common_I_1	80226	10645159	106566	10784	5101649	0.7534	-0.0085	0.001	0.001	38298	549311	63.594	12334	12624	19.637	5669	80226	1064520	106566	10784	14.8023	14.6408	
SP4	SOX_6	cluster_5	Common_I_1	4381	5815211	5617	6009	1381352	0.7534	-0.0085	0.001	0.001	2099	38227	62.352	2667	9744	28.068	284	4381	5815212	5617	6009	13.0282	13.0282	
DN	ATF1_1	cluster_5	Common_I_1	3314	4099348	4244	4577	964117	0.7531	-0.0087	0.001	0.001	6189	5031	63.89	5031	6189	20.7	3314	3314	4099349	4244	4577	6.483	6.483	
SP4	SOX_1	cluster_5	Common_I_1	2790	3691252	3664	3818	77992	0.7532	-0.0089	0.001	0.001	2249	20248	60.174	7133	18524	13.178	2178	2790	3691253	3664	3818	11.7298	11.7298	
SP4	MAP_innov10	cluster_5	Common_I_1	15972	2120649	20868	21558	1991919	0.7532	-0.409	0.001	0.001	8761	96521	50.023	3417	6243	14.688	1488	15972	21207	20868	21558	16.5477	16.2917	
DP	GMR1_2	cluster_5	Common_I_1	3650	4447165	4460	4660	8001361	0.7531	-0.0091	0.001	0.001	2081	29642	70.749	509	6961	16.721	3650	3650	4447166	4460	4660	12.888	12.888	
SP4	ETV_2	cluster_2	DP	4023	5342333	5095	5558	1387887	0.7531	-0.0091	0.001	0.001	4006	44382	25.767	2328	20847	12.103	447	4023	5342334	5095	5558	9.0645	19.201	
SP4	TK8_1	cluster_2	DP	7643	10149377	9925	10384	1381683	0.7531	-0.0091	0.001	0.001	11799	8218	55.065	2687	18553	12.365	1096	7643	1014938	9925	10384	9.2507	40.789	
SP4	PCF1_2	cluster_5	Common_I_1	2468	3377406	3089	3471	1133256	0.7531	-0.0092	0.001	0.001	6560	57329	25.539	1397	12446	15.7624	275	2468	3377407	3089	3471	14.205	15.885	
SP4	FOXO_4	cluster_5	Common_I_1	4030	5352091	5137	5566	1217975	0.7531	-0.0092	0.001	0.001	2229	29043	58.234	766	8486	19.05	136	4030	5352092	5137	5566	14.1738	14.2533	
SP4	TK8_4	cluster_5	Common_I_1	26201	34800346	34376	35388	3582462	0.7529	-0.0095	0.001	0.001	8934	183999	55.977	3505	63358	21.639	1396	26201	3480035	34376	35388	16.2439	15.9861	
SP4	FOXO_2	cluster_5	Common_I_1	186133	24756223	24665	24926	10091938	0.7528	-0.0097	0.001	0.001	51020	124576	62.597	18823	41572	20.971	7904	186133	2475623	24665	24926	15.4921	15.4921	
SP4	TK8_1	cluster_2	DP	5612	7455585	7135	7775	1863716	0.7527	-0.0098	0.001	0.001	3719	68942	53.926	770	8409	11.028	298	5612	7455586	7135	7775	8.2142	39.8042	
SP4	TK8_5	cluster_2	DP	9279	12329245	11977	12711	2424976	0.7526	-0.41	0.001	0.001	5648	109382	56.634	1223	22231	11.51	495	9279	1232925	11977	12711	10.743	41.739	
DP	SOX_6	cluster_2	DN	2889	3889304	3817	4034	1279891	0.7526	-0.4101	0.001	0.001	1589	25439	47.17	562	15533	14.88	2889	3889305	3817	4034	38.557	38.557		
DP	TCF4_2	cluster_5	Common_I_1	5510	73771205	76024	74382	3981167	0.7525	-0.4103	0.001	0.001	3700	295339	54.979	15187	134709	25.056	6184	5510	7377121	76024	74382	40.6137	41.2073	
SP4	RF1_innov1	cluster_5	Common_I_1	14659	18691325	14000	19200	2381261	0.7521	-0.4109	0.001	0.001	4900	39880	60.137	4488	128.800	0.7541	-0.0071	0.001	14659	1869133	14000	19200	40.8947	41.6938
SP4	FOXO_1	cluster_5	Common_I_1	2655	22528567	22160	22877	216307	0.7521	-0.4111	0.001	0.001	6196	119381	67.65	2468	34061	13.818	16439	2655	2252857	22160	22877	14.4139	14.2179	
SP4	RF1_innov2	cluster_2	DP	2113	2809757	2859	2964	967382	0.7521	-0.4111	0.001	0.001	8229	29043	58.234	766	8486	19.05	136	2113	2809758	2859	2964	11.4315	12.5665	
SP4	TK8_1	cluster_5	Common_I_1	139	18780	18614	18780	18614	0.7521	-0.4111	0.001	0.001	4930	32611	59.99	4930	4930	23.614	139	139	18781	18614	18780	16.976	16.976	
SP4	FOXO_1	cluster_5	Common_I_1	2100	14805737	14400	15117	180120	0.7518	-0.4117	0.001	0.001	6476	84929	66.37	1895	21311	18.076	1075	2100	1480574	14400	15117	15.0763	15.1051	
SP4	MAP_innov1	cluster_5	Common_I_1	21361	2841869	27190	28923	2878305	0.7517	-0.4118	0.001	0.001	7957	136475	61.511	2875	47004	21.328	1264	21361	2841870	27190	28923	15.7442	15.4062	
SP4	RF1_innov1	cluster_5	Common_I_1	4200	5496911	4200	5496911	4200	0.7517	-0.4118	0.001	0.001	4200	5496911	4200	4200	4200	12.222	4200	4200	5496912	4200	5496911	15.9997	15.9997	
DP	KLF1_1	cluster_5	Common_I_1	10073	139657474	139128	140664	4461574	0.7513	-0.4126	0.001	0.001	76404	247002	63.769	28920	222161	11.074	10073	10073	13965748	139128	140664	14.856	46.296	
SP4	PCF2_innov1	cluster_2	DP	3122	4155387	4001	4308	894005	0.7513	-0.4126	0.001	0.001	4643	46514	63.727	677	91451	13.417	3122	3122	4155388	4001	4308	16.4875	16.4875	
DP	FOXO_1	cluster_5	Common_I_1	8248	1296545	10660	11338	2010851	0.7513	-0.4126	0.001	0.001	4635	4416	63.946	4635	4635	23.846	8248	8248	1296546	10660	11338	14.5286	14.5286	
SP4	RUN1_1	cluster_5	Common_I_1	14484	8580585	84956	86631	491642	0.7512	-0.4127	0.001	0.001	21967	334786	73.828	10568	16555	25.864	4607	14484	8580586	84956	86631	19.3535	19.3535	
DP	HNF1A-INT1	cluster_5	Common_I_1	6658	15885887	15091	15484	1826830	0.7512	-0.4128	0.001	0.001	10744	84776	67.161	1329	22887	20.366	1590	6658	15885888	15091	15484	15.2154	15.2154	
SP4	FOXO_1	cluster_5	Common_I_1	12088	13222466	12088	13222466	12088	0.7512	-0.4128	0.001	0.001	12088	13222466	12088	12088	12088	12.088	12088	12088	13222467	12088	13222466	15.8009	15.8009	
SP4	ATF_2	cluster_2	DP	3193	4251894	4083	4463	1138271	0.7511	-0.4131	0.001	0.001	3830	46012	56.648	600	7608	19.366	289	3193	4251895	4083	4463	11.3846	11.3846	
SP4	KCF2_3	cluster_5	Common_I_1	8760	11666065	11439	11895	1407642	0.7509	-0.4133	0.001	0.001	5825	58444	66.163	1899	11881	20.582	864	8760	1166607	11439	11895	14.9887	14.8122	
DP	GATA_innov16	cluster_3	DN	10881	14492836	13988	14946	3032067	0.7508	-0.4135	0.001	0.001	404	84333	48.865	1533	30486	13.0669	1234	10881	14492837	13988	14946	12.9024	35.8801	
SP4	MESP1_1	cluster_5	Common_I_1	47943	63880349	63303	64479	3661883	0.7505	-0.4141	0.001	0.001	28293	255419	48.619	14895	131266	25.158	5339	47943	63880350	63303	64479	18.7703	18.7703	
DP	RF1_innov2	cluster_2	DP	6808	18691325	14000	19200	2381261	0.7502	-0.4145	0.001	0.001	4900	39880	60.137	4488	128.800	0.7541	-0.0071	0.001	6808	1869133	14000	19200	40.8947	41.6938
DP	TCF7L2_innov7	cluster_2	DP	14079	18770356	18371	19170	2428984	0.7501	-0.4149	0.001	0.001	12662	176542	61.995	2277	30780	10.809	1040	14079	18770357	18371	19170	8.064	45.5863	
SP4	E2F1_1	cluster_5	Common_I_1	12600	16799208	16330	17116	1861353	0.7501	-0.4149	0.001	0.001	755													

SP4	TRK2_1	cluster_5	Common_I_DN	18773	25304697	24857	25749	2847069	0.7419	-0.4807	0.001	0.0001909	4792	118888	58.407	3068	442478	21.759	1271	18773	93.861	16.1049	15.8304	42.4276	42.4294					
DP	ESL1_1	cluster_1	Common_I_DN	5712	18773	7705	7705	434555	0.7418	-0.4808	0.001	0.0001909	24857	25749	2847069	0.7419	-0.4807	0.001	0.0001909	4792	118888	58.407	3068	442478	21.759	1271				
SP8	ATF7_1	cluster_5	Common_I_DN	6251	8427559	8198	8564	147635	0.7418	-0.4811	0.001	0.001	1037	3427	44593	61.045	1946	15901	485	6211	85373	14.1238	14.0179	44.8229	44.8229					
DP	TCF1_1	cluster_3	Common_I_DN	1285	1770948	18891	17684	236.8432	0.7415	-0.4814	0.001	0.0010435	30435	116448	51.095	3198	34866	15.079	1177	1285	15315	11.0221	13.6649	37.348	37.348					
SP4	HMGB2_1	cluster_5	Common_I_DN	2951	38934	2617401	2617401	27425	0.7415	-0.4814	0.001	0.0010435	30435	116448	51.095	3198	34866	15.079	1177	1285	15315	11.0221	13.6649	37.348	37.348					
DP	ESR3_4	cluster_5	Common_I_DN	18822	9506613	78331	79628	379.975	0.7415	-0.4815	0.001	0.001	31447	463984	71.003	3783	11282	18.29	4036	8882	15.2865	12.6259	41.5807	41.5807						
DP	ERG_4	cluster_5	Common_I_DN	13320	1781115	17486	18158	209.2662	0.7414	-0.4816	0.001	0.001	6144	87870	61.259	2327	2347	20.509	1039	13520	9.1643	15.045	44.9385	44.9385						
DP	RUNX2_1	cluster_3	Common_I_DN	6838	22456	4201	4201	134.4215	0.7412	-0.4817	0.001	0.001	4880	124.4215	0.7412	-0.4817	0.001	0.001	4880	124.4215	0.7412	-0.4817	0.001	0.001	4880	124.4215	0.7412	-0.4817	0.001	0.001
SP4	NCF3_1	cluster_5	Common_I_DN	16156	17750.778	17411	18908	220.9466	0.7412	-0.4811	0.001	0.0010435	30663	79758	58.129	3666	3747	22.768	1135	13156	16.8099	16.4828	41.8331	41.8331						
SP4	REL_2	cluster_5	Common_I_DN	16986	22929.136	22624	23257	197.0716	0.7408	-0.4828	0.001	0.0010435	16661	145058	63.571	4147	36451	20.236	2889	16986	19.572	14.9072	44.8339	44.8339						
DP	ETV4_2	cluster_5	Common_I_DN	6134	10316	8046	8236	56.41	0.7408	-0.4815	0.001	0.001	6029	10316	8046	8236	56.41	0.7408	-0.4815	0.001	0.001	6029	10316	8046	8236	56.41	0.7408	-0.4815	0.001	0.001
SP8	SXC1_9	cluster_2	DP	3253	4392.208	4182	4612	126.4268	0.7407	-0.4811	0.001	0.0010435	16103	217420	60.042	6137	70702	21.339	2615	3253	33865	16.8075	15.9696	49.3635	49.3635					
SP4	SPOC_1	cluster_5	Common_I_DN	37643	45588.781	45019	46106	236.0524	0.7406	-0.4812	0.001	0.001	36202	417490	60.042	6137	70702	21.339	2615	3253	33865	16.8075	15.9696	49.3635	49.3635					
SP4	TRK2_1	cluster_5	Common_I_DN	2366	1382.886	2366	2366	3189.2	0.7406	-0.4812	0.001	0.0010435	80440	147190	60.042	6137	70702	21.339	2615	3253	33865	16.8075	15.9696	49.3635	49.3635					
SP8	RUNX2_2	cluster_5	Common_I_DN	21770	69845.683	68997	70528	468.4782	0.7406	-0.4812	0.001	0.0010435	13665	276608	53.223	5297	123568	26.508	3702	51770	9.5536	18.8441	48.7016	48.7016						
SP4	PNOX2_2	cluster_5	Common_I_DN	51732	29411.074	28897	29912	287.6696	0.7404	-0.4819	0.001	0.0010435	11643	126378	51.858	3291	57301	21.558	1972	21772	8.9046	17.255	37.3275	37.3275						
DP	TCF4_1	cluster_3	Common_I_DN	60068	51990.402	51385	52704	418.4064	0.7399	-0.4845	0.001	0.0010909	39169	352388	54.334	3892	109951	25.918	7919	60068	10.38	19.1048	39.7178	39.7178						
SP8	SOX5_3	cluster_2	DP	2308	3119.551	2843	3288	105.201	0.7399	-0.4845	0.001	0.0011429	2489	35761	63.453	366	5129	8.7068	159	2308	13318	6.9958	14.1759	44.4246	44.4246					
SP4	SOX7_4	cluster_5	Common_I_DN	6100	8328.978	8032	8592	162.4314	0.7396	-0.4851	0.001	0.0010909	2839	45461	60.885	369	14283	19.087	403	6100	43809	14.9151	13.5203	41.5893	41.5893					
SP8	FOSL2_4	cluster_5	Common_I_DN	3448	4653.964	4507	4846	104.3791	0.7395	-0.4837	0.001	0.0010909	2503	24809	59.374	368	8086	15.947	271	3448	8.252	14.4207	41.8982	41.8982						
SP8	SOX4_4	cluster_2	DP	1693	2290.197	2154	2416	81.8948	0.7394	-0.4837	0.001	0.0010909	1303	24809	59.374	319	3951	9.4558	133	1693	4.0518	6.989	42.6928	42.6928						
SP8	FOSX2_4	cluster_2	DP	4722	6387.027	6146	6617	138.8769	0.7394	-0.4837	0.001	0.0010909	4506	67750	58.889	791	11178	9.7326	319	4722	4.1114	7.0794	6.9697	6.9697						
DP	ATF4_2	cluster_5	Common_I_DN	7124	9812.021	9336	9892	154.589	0.7391	-0.4842	0.001	0.0010909	3830	46612	55.648	1471	21253	21.128	597	7124	8.7661	15.4295	40.5846	40.5846						
DP	CF3_2	cluster_3	Common_I_DN	79792	107977.04	107043	108940	580.7484	0.739	-0.4864	0.001	0.0010435	10371	417427	54.227	11375	199427	26.003	5275	79792	10.404	19.1186	40.9306	40.9306						
SP8	REL_1	cluster_5	Common_I_DN	16404	22199.972	21942	22493	175.2767	0.7389	-0.4865	0.001	0.001	12386	112079	62.586	4073	35821	20.003	1833	16404	9.1001	14.799	14.6361	14.6361						
SP4	SXC14_2	cluster_2	DP	6214	8412.227	8247	8697	165.4464	0.7387	-0.4869	0.001	0.001	5739	96235	61.805	978	12974	10.005	419	6214	4.4489	7.209	44.6683	44.6683						
SP8	TRK2_2	cluster_2	DP	7737	10474.444	10195	10750	157.242	0.7387	-0.487	0.001	0.0010909	9607	90775	56.983	1067	8075	11.709	7737	7737	4.8568	8.5006	45.233	45.233						
SP4	REL_1	cluster_5	Common_I_DN	16601	22478.079	22204	22818	189.5617	0.7386	-0.4872	0.001	0.001	12552	113999	63.434	4073	35821	20.003	1851	16601	9.2701	14.6137	14.6137	14.6137						
DP	ESL1_2	cluster_1	Common_I_DN	87133	118068.654	117317	118995	476.6214	0.7385	-0.4873	0.001	0.001	45782	61209	63.434	4073	35821	20.003	1851	87133	11.8068	17.7476	16.4657	16.4657						
SP4	FOSL1_know1	cluster_2	DP	3538	7502.182	7334	7729	138.4464	0.7382	-0.4879	0.001	0.0010435	7670	78391	58.439	1236	13124	9.1621	506	3538	4.118	7.6029	7.0466	7.0466						
SP4	SXC11_2	cluster_2	DP	3564	4357.414	4288	4741	109.4911	0.7382	-0.4879	0.001	0.0010909	3666	51361	60.532	389	7774	9.5489	243	3564	3.334	3.9646	6.5497	6.5497						
DP	FOSL1_2	cluster_1	Common_I_DN	5817	7785	7785	7785	424.2238	0.7379	-0.4881	0.001	0.0010435	4189	4189	60.532	389	7774	9.5489	243	5817	4.1863	5.817	42.4276	42.4276						
SP4	ESRX1-Fill_1	cluster_5	Common_I_DN	152012	206613.794	206668	207408	862.5437	0.7379	-0.4886	0.001	0.0010435	47664	952228	58.406	19664	364409	24.329	7820	152012	16.4065	19.9638	39.7174	39.7174						
SP4	SXC14_1	cluster_2	DP	1426	1933.958	1839	2030	57.8517	0.7376	-0.489	0.001	0.0010909	2249	20248	60.174	378	3266	9.7061	161	1426	4.2379	7.1387	4.1152	4.1152						
DP	ESL1_2	cluster_1	Common_I_DN	1744	2182.027	21325	24051	211.2439	0.7375	-0.4891	0.001	0.001	4034	4034	60.174	378	3266	9.7061	161	1744	4.2379	7.1387	4.1152	4.1152						
SP8	SXC1_3	cluster_2	DP	4994	6727.012	6523	7036	158.0905	0.7375	-0.4893	0.001	0.0011429	5938	53444	24.833	3507	27373	13.671	554	4994	9.3095	13.2297	18.1223	18.1223						
SP8	SOX3_3	cluster_2	DP	2796	3778.159	3601	3976	109.5395	0.7375	-0.4894	0.001	0.0010909	2972	41449	55.348	533	7047	9.3648	203	2796	3.786	6.892	3.8063	3.8063						
DP	ESL1_2	cluster_1	Common_I_DN	1299	1790.214	18257	17900	213.9704	0.7375	-0.4897	0.001	0.001	11807	1299	55.348	533	7047	9.3648	203	1299	4.2379	7.1387	4.1152	4.1152						
DP	ETV6_2	cluster_5	Common_I_DN	15320	18338.292	19251	18739	247.421	0.7373	-0.4897	0.001	0.0011429	9680	87477	23.63	1970	77969	21.062	1502	15320	16.522	15.5165	40.5846	40.5846						
SP8	ESF2_3	cluster_5	Common_I_DN	3505	7395.524	6925	7423	150.8535	0.7373	-0.4897	0.001	0.001	2609	35210	61.393	676	11157	20.975	321	3505	9.7973	15.5147	46.1207	46.1207						
DP	ESL4_2	cluster_5	Common_I_DN	1589	2180.171	2187	2466	37.8422	0.7373	-0.4898	0.001	0.0011429	1638	1638	61.393	676	11157	20.975	321	1589	4.6823	6.983	4.9633	4.9633						
DP	MD1_1	cluster_3	Common_I_DN	58318	79111.065	76818	79153	383.785	0.7372	-0.4899	0.001	0.0010435	38081	317883	54.366	16381	18833	18.347	6432	58318	9.8833	18.347	39.502	39.502						
SP4	RUNX2_1	cluster_5	Common_I_DN	49261	66837.248	66081	67559	450.6621	0.737	-0.4902	0.001	0.0010435	18786	240509	50.895	9707	132568	25.508	3529	49261	9.8833	18.347	39.502	39.502						
DP	PNOX2_1	cluster_5	Common_I_DN	4951	6214	8122.227	8247	165.4464	0.7369	-0.4903	0.001	0.001	5739	96235	61.805	978	12974	10.005	419	4951	4.4489	7.209	44.6683	44.6683						
SP4	FOSL2_know16	cluster_5	Common_I_DN	16011	21967.111	21576	22412	260.8148	0.7366	-0.491	0.001	0.0010435	9669	106189	50.266	10289	20823	14.899	1631	16011	15.2472	15.2472	36.206	36.206						
DP	TCF12_1	cluster_5	Common_I_DN	5007	6797.355	6717	6996	129.9818	0.7366	-0.4911	0.001	0.0010909	2634	34887	58.999	965	11945	20.317	349	5007	8.5163	14.6225	14.4448	14.4448						
DP	ESL4_2	cluster_5	Common_I_DN	2068	28996.1	28927	29628	225.1123	0.7366	-0.491	0.001	0.001	2068	28996.1	28927	29628														

DP	SOX19_9	cluster_3	DN	4504	6207234	5955	6328	1470385	0.7556	0.4627	0.001000435	2814	39418	48.89	8017	13538	16.104	327	4504	5.3378	11.6205	11.4263	32.1534	33.2693	
DP	SOX2_1	cluster_3	DN	1527	2522349	4575	1582	1885	0.7555	0.463	0.001000909	5664	6862	59.66	10422	2006	15.254	5946	1507	1527	6.5391	11.8254	11.8254	32.9939	35.0785
DP	FOX1_4	cluster_1	SP8	3110	4287457	4140	4436	88.2345	0.7554	0.4631	0.001000909	2797	36450	49.02	6089	12229	10.288	347	3110	6.2455	8.6879	8.6879	49.302	51.6375	
SP8	FOX1_1	cluster_2	DP	8495	13088034	12774	13520	211.0084	0.7554	0.4631	0.001000909	7647	122767	55.43	1158	23954	54.58	1558	8495	4.2871	7.9742	7.9742	37.6765	39.0785	
SP4	ATF1_1	cluster_3	Common_1	856	14992	4005	121.9222	0.7554	0.4634	0.001000909	400	6596	64.4	1009	1409	40.00	45.00	40.00	856	1.3779	2.6225	2.6225	13.7173	14.5157	
DP	MAF1_1	cluster_3	DN	1455	20004442	19516	20543	331.768	0.7553	0.4637	0.001000435	5947	119384	52.184	2093	38737	16.961	7299	1455	6.3909	12.2483	12.2483	36.081	41.5066	
SP8	BATF_known1	cluster_3	Common_1	7455	102811	10055	10519	146.375	0.7551	0.4637	0.001000435	3843	50078	57.839	1417	17961	20.745	575	7455	8.6104	14.9623	14.9623	44.8888	46.5787	
DP	EV1_1	cluster_3	DN	1579	2187461	20931	22072	205.67	0.7551	0.4637	0.001000435	8911	14868	60.911	2017	29574	18.58	4868	1579	5.8767	10.5474	10.5474	35.0785	36.4156	
SP4	SPC_2	cluster_5	Common_1	35783	49363.308	48854	49934	531.8651	0.7549	0.4642	0.001000435	16728	225108	60.689	2231	38200	22.191	2767	35783	9.6471	17.9059	17.9059	42.461	47.474	
DP	FLI1_2	cluster_5	Common_1	12578	17861407	17030	17716	201.3084	0.7549	0.4649	0.001000435	6769	86994	61.881	2620	82831	20.138	970	12578	8.947	15.4231	15.4231	44.306	44.428	
DP	SOX1_1	cluster_5	Common_1	3024	249493	3424	3588	416.6914	0.7549	0.4657	0.001000435	1507	21086	161.267	6017	107864	19.601	802	3024	3.115	6.1499	6.1499	10.081	10.2721	
SP4	TCF7L2_known7	cluster_5	Common_1	24837	34303.872	33858	34832	390.6784	0.754	0.4659	0.001000435	12562	15242	61.995	4202	56378	19.988	1797	24837	8.7219	14.905	14.905	40.0686	40.6544	
DN	SOX1_2	cluster_1	SP8	4615	5765.586	6205	6568	107.0084	0.7539	0.4661	0.001000909	2740	52487	72.528	679	9108	10.712	375	4615	4.6137	8.9727	8.9727	49.3373	50.6697	
DP	SOX1_4	cluster_1	SP8	381	5568.636	5907	5937	101.7697	0.7539	0.4662	0.001000909	1246	2466	59.949	369	6024	16.546	798	381	0.6216	1.8461	1.8461	35.0785	35.0785	
SP4	MAF1_1	cluster_5	Common_1	2264	31113.894	30783	31794	307.5811	0.7535	0.467	0.001000435	9607	193260	55.679	4204	56810	22.714	1657	2264	9.075	16.3906	16.3906	38.7012	39.8768	
DP	HEF1_1	cluster_5	Common_1	12152	23674.912	22390	22467	256.9239	0.7534	0.4671	0.001000435	9609	106096	60.849	4006	39030	22.385	1527	12152	12.624	19.282	19.282	41.178	41.8688	
SP4	FOX1_1	cluster_5	Common_1	5974	2757.864	36792	27782	297.7142	0.7534	0.4672	0.001000909	7981	12814	57.854	3180	48214	21.77	1974	5974	8.957	15.7174	15.7174	40.9076	42.1276	
DN	SOX_9	cluster_2	DP	4111	4802.201	4110	4505	117.4385	0.7532	0.4676	0.001000909	2595	47951	62.253	485	7176	8.089	3111	4111	4.0389	6.6444	6.6444	43.528	45.2378	
DN	SOX_1	cluster_1	SP8	3991	6349.342	6184	6517	99.1517	0.7531	0.4677	0.001000435	5190	57165	76.199	838	8765	11.53	428	3991	6.0394	8.2466	8.2466	40.011	41.0704	
DN	SPC_1	cluster_2	SP8	16018	22153.362	23084	22495	217.0364	0.7531	0.4678	0.001000435	2911	25188	75.563	2474	34868	6.9373	6236	16018	4.549	6.4008	6.4008	40.9596	42.1378	
SP4	STAT_known2	cluster_5	Common_1	26451	36588.189	36057	37695	319.9594	0.7529	0.4681	0.001000435	13013	18903	68.552	2866	54457	20.648	1349	26451	10.029	18.4974	18.4974	47.0611	48.5723	
DN	TCF1_1	cluster_1	SP8	18560	55682.081	25241	26059	238.4823	0.7527	0.4685	0.001000435	13527	217263	71.046	2397	37354	12.182	1170	18560	6.0629	8.6494	8.6494	45.526	46.992	
DP	SOX1_2	cluster_2	DN	2942	4071.199	3072	4056	120.7462	0.7527	0.4685	0.001000435	1842	2567	48.902	980	16564	16.564	713	2942	5.2365	10.2535	10.2535	31.1378	33.0154	
DP	MF1A_2	cluster_5	Common_1	25084	34720.289	34812	35125	248.8089	0.7525	0.469	0.001000435	13629	185302	69.951	3882	50133	18.936	1882	25084	10.643	13.6991	13.6991	48.7312	50.0449	
SP4	EF1_1	cluster_5	Common_1	8535	11622.881	11565	12084	156.2558	0.7519	0.4701	0.001000435	4567	59426	65.789	1489	18468	20.445	678	8535	9.4489	14.8456	14.8456	46.2302	47.6611	
SP8	MF1A_1	cluster_5	Common_1	7838	10894.265	10789	10936	145.0985	0.7518	0.4704	0.001000435	3826	51931	65.795	1353	16540	16.540	593	7838	5.9449	10.2536	10.2536	40.2168	41.5089	
SP8	FOX1_2	cluster_5	Common_1	3583	4964.886	4841	5090	75.1096	0.7517	0.4705	0.001000909	1458	21708	59.213	403	8406	18.848	1237	3583	7.8005	13.8887	13.8887	42.3562	43.6243	
DP	TBX12_1	cluster_3	DN	12942	17837.129	17666	18200	171.3997	0.7515	0.4709	0.001000909	4654	102938	53.396	4913	33885	17.635	1860	12942	11.2639	16.2628	16.2628	46.429	47.8929	
SP4	MDM3_1	cluster_5	Common_1	12583	18844.113	23084	22322	248.8327	0.7514	0.4712	0.001000909	5716	87802	57.771	2036	31213	21.805	1924	12583	10.851	15.7303	15.7303	42.3562	43.6243	
SP4	TCF7L1_1	cluster_5	Common_1	24237	33605.118	33049	34169	335.6362	0.7513	0.4713	0.001000435	10718	172842	61.656	3840	55600	19.846	1530	24237	10.5214	14.8026	14.8026	47.0611	48.5723	
DP	SP1_known1	cluster_1	SP8	14148	19617.396	19338	19923	184.3814	0.7512	0.4715	0.001000435	34518	248310	52.166	5460	78716	18.079	2038	14148	10.3036	15.8293	15.8293	36.9597	37.9127	
SP8	SOX1_1	cluster_1	SP8	389	39011	2639	2639	184.6519	0.7512	0.4717	0.001000435	2057	32466	52.466	1337	21955	17.522	1095	389	0.3412	0.9555	0.9555	40.0686	41.2352	
DP	ATF3_known2	cluster_5	Common_1	15605	21442.385	21999	22034	224.0378	0.7512	0.4718	0.001000435	8108	11894	67.508	2760	32327	18.386	2327	15605	8.0783	13.1473	13.1473	47.305	48.7233	
SP4	SOX1_2	cluster_2	DP	3001	4142.171	3299	4332	103.8466	0.7511	0.4718	0.001000909	3199	44866	62.621	5110	6849	9.5584	2117	3001	4.1886	6.4888	6.4888	42.7451	43.8166	
DP	SOX_1	cluster_2	DN	5172	6083	6836	7408	170.0273	0.751	0.4721	0.001000909	3489	51447	68.807	987	12407	13.369	609	5172	2.9487	5.1136	5.1136	31.1378	32.5136	
DP	SOX_3	cluster_3	DN	350	4896.466	4697	5098	130.5735	0.751	0.4721	0.001000435	2308	30641	52.026	618	9692	14.646	239	350	0.3500	1.1972	1.1972	35.9594	36.4218	
SP8	KLF16_1	cluster_5	Common_1	12000	16648.007	16643	16710	155.2716	0.7508	0.4724	0.001000435	6101	79277	88759	67.446	23213	251382	19.103	10916	12000	5.9936	13.7904	13.7904	46.4056	47.7361
SP8	FOX1_known20	cluster_5	Common_1	29018	42951.207	42951	43224	318.7971	0.7507	0.4725	0.001000909	14508	21676	62.224	5149	72064	20.64	2064	29018	16.976	23.848	23.848	51.6406	52.9714	
SP8	SOX1_4	cluster_2	DP	2542	3527.561	3359	3714	110.1913	0.7507	0.4725	0.001000909	2760	3746	58.82	464	6163	9.7328	844	2542	4.0244	6.9373	6.9373	39.5552	41.2461	
DP	FOX1_1	cluster_5	Common_1	11330	15704.085	156032	15798	158.1632	0.7505	0.4729	0.001000435	6362	823083	65.87	20709	242789	19.43	942	11330	10.036	13.9773	13.9773	46.4488	46.956	
DP	SOX1_2	cluster_5	Common_1	7932	10187.73	109146	11078	502.4153	0.7506	0.473	0.001000909	20599	29299	67.906	2009	29156	19.916	1611	7932	7.9156	11.2222	11.2222	40.0686	41.2352	
DP	SOX1_4	cluster_5	Common_1	4738	6008.729	5708	6315	175.993	0.7502	0.4733	0.001000909	2231	35768	47.798	863	12786	17.286	773	4738	5.7837	12.5267	12.5267	31.6338	33.4599	
DP	HEF1_1	cluster_5	Common_1	17356	21622.847	23812	24447	196.5593	0.7501	0.4737	0.001000435	9992	110416	62.326	3803	38880	21.946	1576	17356	9.7968	13.3637	13.3637	44.6396	45.9929	
DP	SOX1_2	cluster_5	Common_1	19323	52917.989	52917	54569	248.6583	0.7501	0.4737	0.001000435	10267	140869	62.705	3886	53086	20.626	1928	19323	13.806	19.3589	19.3589	46.4488	47.8202	
SP4	GATA_known16	cluster_5	Common_1	15673	21765.106	21329	22241	284.2779	0.7501	0.4737	0.001000435	2538	30765	65.558	1823	35888	20.795	760	15673	9.014	14.688	14.688	45.1617	46.4782	
DN	SOX_1	cluster_1	SP8	3586	4980.884	4810	5155	104.8223	0.75	0.4739	0.001000909	5128	40630	73.556	846	12793	13.543	234	3586	1.839	3.2286	3.2286	39.5761	40.9289	
DP	TCF4_1	cluster_5	Common_1	40883	67876.106	67876	69227	61.985	0.75	0.474	0.001000909	20023	295439	62.011	4014	60283	19.802								

SPR	SOX1_1	cluster_2	DP	2838	4006.277	3819	4186	114.2989	0.7085	0.4972	0.001	0.0001909	3073	43248	60.363	510	1849	9.5548	4777	2838	3.9611	6.5622	40.5882	41.4307		
SPR	SOX2_1	cluster_2	DP	461	6268	4857	7258	144.5651	0.7082	0.4977	0.001	0.0001909	709	709	60.848	709	60.848	709	60.848	709	60.848	709	60.848	709	60.848	
SPR	FYV_1	cluster_5	Common_1	29317	3801.145	33559	34195	258.6202	0.7082	0.4978	0.001	0.0001909	16194	16680	56.55	508	6068	20.38	29317	29317	8.0112	14.6088	39.3257	39.8488		
DP	RUN_1	cluster_3	DN	5814	7852.838	71322	76910	514.9489	0.7078	0.4985	0.001	0.0001909	21137	29745	46.5	11766	164110	25.838	5814	18.0799	8.1272	18.4039	32.3899	32.7914		
DN	HRIDB_1	cluster_5	Common_1	7630	5097.146	5669	6171	101.6261	0.7076	0.4986	0.001	0.0001909	6016	6016	57.008	6016	57.008	6016	57.008	6016	57.008	6016	57.008	6016	57.008	
SP4	BATF_known1	cluster_5	Common_1	7635	10647.883	10382	10923	152.376	0.7077	0.4988	0.001	0.0001909	3474	51803	59.832	1417	17961	58.312	20.745	18.162	14.5455	14.0021	41.0021	41.0021		
DN	SOX1_2	cluster_1	SPR	3609	5470.155	5286	5625	100.8766	0.7073	0.4995	0.001	0.0001909	3905	47699	72.637	591	7867	71.98	282	3609	5.9818	8.2439	17.1577	49.1801	49.1801	
DN	SOX1_1	cluster_2	SPR	10074	14829.104	14073	14644	551.7422	0.7073	0.4999	0.001	0.0001909	10074	14644	551.7422	10074	14644	551.7422	10074	14644	551.7422	10074	14644	551.7422	10074	14644
DN	FOXP1_1	cluster_1	SPR	1761	25125.886	24848	25725	352.7499	0.7069	0.5004	0.001	0.0001909	16678	25294	65.084	2385	45681	11.757	277	1761	4.5763	6.2663	7.0314	36.6118	36.6118	
DN	MYBL1_1	cluster_1	SPR	7853	11122.154	10861	11352	147.1852	0.7067	0.5008	0.001	0.0001909	10078	128410	79.943	818	14633	9.1099	418	7853	4.879	6.1556	6.1556	51.1002	51.1002	
SP4	MYBL1_known1	cluster_5	Common_1	1206	14902.5	14902	15337	127.5418	0.7066	0.5012	0.001	0.0001909	1206	14902	15337	1206	14902	15337	1206	14902	15337	1206	14902	15337	1206	14902
SP4	FOXP2_1	cluster_5	Common_1	3605	5188.186	5066	5305	74.6727	0.7063	0.5013	0.001	0.0001909	3729	28374	64.207	1426	8406	18.489	617	3605	8.007	11.0482	12.9168	43.9398	43.9398	
DP	HBP1_1	cluster_3	DN	5829	8522.838	7936	8527	137.0001	0.7061	0.5016	0.001	0.0001909	4749	54705	50.814	1145	16881	15.495	390	5829	5.4144	10.9879	10.9879	34.0611	34.0611	
DN	HBP_1	cluster_3	DN	5818	11899.188	11337	11556	97.3126	0.7061	0.5018	0.001	0.0001909	4749	54705	50.814	1145	16881	15.495	390	5818	5.4144	10.9879	10.9879	34.0611	34.0611	
DP	MAF_known1	cluster_3	DN	1882	26670.971	26717	27763	332.6291	0.7061	0.5021	0.001	0.0001909	13094	166660	142.112	1919	49735	16.236	1176	1882	6.0479	11.4241	13.4405	48.3606	48.3606	
DP	MESP_1	cluster_3	DN	47465	6724.651	66714	67788	341.5719	0.7061	0.5023	0.001	0.001	10295	204779	56.604	19334	120595	22.955	5265	47465	13.949	16.1488	16.1488	38.202	38.202	
DP	SOX1_1	cluster_3	DN	16139	22870.422	22446	24458	298.9488	0.7057	0.5029	0.001	0.0001909	7636	19318	54.566	3954	43132	39.564	18.832	16139	5.2468	10.3999	10.3999	37.2622	37.2622	
DN	SOX_4	cluster_3	DN	7554	10705.105	10378	11017	203.9852	0.7057	0.5029	0.001	0.0001909	4428	66520	51.448	1492	21287	16.476	508	7554	5.8424	11.4724	11.4724	34.0483	34.0483	
DP	SOX1_4	cluster_3	DN	8178	11591.034	11327	11896	202.2303	0.7056	0.5031	0.001	0.0001909	4770	71762	51.378	1603	23013	16.476	551	8178	5.8531	11.5314	11.5314	34.3731	34.3731	
SPR	SOX3_3	cluster_2	DP	2781	3941.807	3746	4140	122.4221	0.7056	0.5031	0.001	0.0001909	2699	42356	55.718	486	7333	50.424	178	2781	3.814	6.595	6.4277	38.6255	38.6255	
DN	KFZ_3	cluster_1	SPR	4703	6666.257	6526	6801	85.3467	0.7055	0.5032	0.001	0.0001909	7087	71094	80.484	904	8622	9.6088	481	4703	5.3242	6.8771	5.208	54.5465	54.5465	
DP	ELK4_2	cluster_4	SP4	5203	7373.586	7080	7669	176.7892	0.7055	0.5032	0.001	0.0001429	7080	69649	25.728	3236	28879	10.9595	578	5203	1.9266	7.326	7.4882	17.8616	18.0131	
SPR	SOX3_1	cluster_5	Common_1	2989	4356.2	4356	4455	445.3221	0.7055	0.5032	0.001	0.0001909	2989	4356	4356	2989	4356	4356	2989	4356	4356	2989	4356	4356	2989	4356
SPR	ITS_known17	cluster_5	Common_1	31291	44427.931	43823	45052	379.9036	0.7041	0.5057	0.001	0.001	13284	21145	59.804	4736	51747	14.8002	131291	14.8002	14.7847	40.2972	40.2972	40.2972	40.2972	
SP4	ATF_2	cluster_5	Common_1	7009	9953.767	9708	10180	143.4914	0.7042	0.506	0.001	0.0001909	7009	47794	58.841	1471	17153	21.118	590	7009	6.8291	14.8316	14.665	40.1088	40.1088	
SP4	MYC_known13	cluster_5	Common_1	2542	2193.706	21605	24454	235.5515	0.7039	0.5065	0.001	0.0001909	2680	9918	55.876	3715	37945	22.315	1429	2542	6.0706	15.7004	15.557	38.2965	38.2965	
DP	HRIDB_1	cluster_3	DN	6344	9086.427	8837	9361	159.8305	0.7037	0.5069	0.001	0.0001909	4807	53111	52.552	12405	10958	11.9938	497	6344	9.3018	12.1605	11.9938	35.732	35.732	
SP4	RUN1_1	cluster_5	Common_1	4445	63116.777	62424	63791	397.137	0.7037	0.507	0.001	0.0001909	18902	289798	59.972	7152	106249	21.389	2909	4445	6.1159	13.8999	10.6739	41.8027	41.8027	
DP	MYAT1_1	cluster_5	DP	4789	6806.486	6779	7049	139.0546	0.7036	0.5071	0.001	0.0001909	4789	6806	6779	4789	6806	6779	4789	6806	6779	4789	6806	6779	4789	6806
SPR	ELK4_1	cluster_5	Common_1	9755	13867.916	13691	14043	107.9542	0.7034	0.5073	0.001	0.001	10555	12649	76.469	2290	18216	21.462	1215	9755	8.2156	11.5659	11.5284	53.0558	53.0558	
SPR	RUN_4	cluster_5	Common_1	3795	54022.293	53437	54650	374.3218	0.7033	0.5077	0.001	0.0001909	16422	259004	60.883	6203	89641	22.762	4899	3795	9.3959	15.202	14.2591	42.3857	42.3857	
DP	FOXO_2	cluster_3	DN	5926	994.36	940	1043	32.3688	0.7033	0.5077	0.001	0.0001909	1107	14493	14.617	107	1490	6.99	56	5926	1.5087	2.687	2.687	31.926	31.926	
DP	HRIDB_1	cluster_3	DN	1036	1473.713	1366	1589	68.8451	0.7032	0.508	0.001	0.0001909	647	8899	92.495	242	2962	12.473	107	1036	6.1114	10.6118	10.6118	33.897	33.897	
DP	TBK1_2	cluster_3	DN	9371	13132.376	12890	13759	243.9777	0.7029	0.5086	0.001	0.0001909	4390	79089	50.708	1562	24827	17.32	527	9371	6.0083	12.0046	11.8487	33.7988	33.7988	
DP	SOX1_1	cluster_3	DN	3198	4517.796	4448	4736	114.6071	0.7028	0.5089	0.001	0.0001909	3198	4517	4448	3198	4517	4448	3198	4517	4448	3198	4517	4448	3198	4517
DN	RUN_1	cluster_1	SPR	3507	49969.494	49547	50486	296.2506	0.7026	0.5093	0.001	0.0001909	34732	49027	76.622	7909	68825	24.629	2489	3507	9.5709	14.8466	15.299	53.3338	53.3338	
SPR	IGFBP_2	cluster_5	Common_1	10005	142157.241	141379	143249	187.6517	0.7026	0.5093	0.001	0.001	50126	82381	71.563	11078	203425	17.689	6233	10005	10.8498	12.4447	12.528	47.6602	47.6602	
DP	FOXD2_known11	cluster_1	SPR	4234	6599.267	6524	6784	125.463	0.7025	0.5095	0.001	0.0001909	4234	6599	6524	4234	6599	6524	4234	6599	6524	4234	6599	6524	4234	6599
DN	TCF7L1_2	cluster_1	SPR	1648	18010.261	17738	18277	168.3685	0.7023	0.5099	0.001	0.0001909	14567	161569	70.069	2407	25849	13.342	1159	1648	5.9982	10.7905	7.8089	48.1152	48.1152	
SPR	HBP1_4	cluster_5	Common_1	9274	13879.778	13331	14180	189.9247	0.7022	0.5104	0.001	0.0001909	5167	67397	61.616	1802	22724	20.775	751	9274	9.4744	14.8497	14.6576	42.9798	42.9798	
SPR	FOXD2_known16	cluster_5	Common_1	3128	4158.188	4067	4358	108.513	0.7022	0.5105	0.001	0.0001909	3128	4158	4067	3128	4158	4067	3128	4158	4067	3128	4158	4067	3128	4158
DP	TBK1_2	cluster_3	DN	1853	22556.603	22088	22957	296.775	0.7019	0.5106	0.001	0.0001909	7546	136200	53.52	2481	32899	11.7811	1888	1853	6.2312	11.6248	11.6248	35.8323	35.8323	
DP	SOX3_3	cluster_3	DN	4451	6344.815	6071	6627	166.3443	0.7016	0.5114	0.001	0.0001909	2264	36279	46.72	320	33934	17.944	280	4451	5.7216	12.3875	12.2688	30.4348	30.4348	
DP	FOXO_2	cluster_3	DN	5648	2828.2	2808	2905	230.453	0.7016	0.5114	0.001	0.0001909	2565	32975	26.645	2069	2565	2565	2069	5648	2.9266	6.1626	6.1626	35.7004	35.7004	
DN	TBK1_2	cluster_3	DN	2759	3934.547	3732	4095	104.4537	0.7013	0.5119	0.001	0.0001909	4760	9517	51.042	647	11979	21.759	210	2759	5.4006	10.8549	10.8549	33.849	33.849	
DN	HMG1A_1	cluster_1	SPR	7253	10343.312	10135	10556	130.4297	0.7013	0.512	0.001	0.0001909	6789	95209	77.457	1076	14034	11.417	540	7253	5.9007	7.954	7.			

DN	POU2F2_known15	cluster_1	SPE	3168	4596.534	4466	4791	82.3971	0.6893	0.5388	0.001	0.0010435	3911	43212	75.23	593	6304	10.975	292	3168	5.5153	7.4661	7.3313	49.2411	50.2538	
DP	RUN1_1	cluster_1	SPE	291	4802	4791	99.2656	0.6894	0.5374	0.001	0.0010435	4704	4802	75.23	593	6304	10.975	292	3168	5.5153	7.4661	7.3313	49.2411	50.2538		
DP	TK1_4	cluster_3	DN	16846	24448.476	23859	24995	337.7828	0.6889	0.5374	0.001	0.0010435	7804	15201	52.016	3605	4743	16.306	892	16846	6.9486	5.7355	5.1173	34.2418	35.2848	
DP	SP10_1	cluster_4	SPE	793	1151.742	1097	1210	34.5001	0.6888	0.5379	0.001	0.0013333	1107	14004	85.672	115	1406	8.2626	61	793	4.7166	5.5304	5.5054	55.0435	56.4011	
DP	TK1_2	cluster_8	DN	11178	156.433	15687	16822	0.0001	0.6888	0.5382	0.001	0.0010435	16822	16822	85.672	833	833	15.0607	78.73	11178	6.4003	6.4003	6.4003	78.73	78.73	
DP	SP1_2	cluster_3	DN	15400	22844.104	21968	22696	205.8312	0.6886	0.5382	0.001	0.0010435	13791	138253	51.134	1838	42015	15.138	11393	15400	6.6227	6.6227	6.6227	11.139	37.7446	
SPE	MFC_known20	cluster_5	Common_I_1	21487	31639.756	31162	32156	308.8329	0.6886	0.5383	0.001	0.001	8790	18555	57.101	358	4338	55966	22	2	21487	15.4700	15.4700	15.1348	38.2929	38.2929
DP	TK1_1	cluster_3	DN	23608	33442.03	33847	34821	301.1461	0.6887	0.5381	0.001	0.0014214	23608	23608	57.101	358	4338	55966	22	2	23608	15.4700	15.4700	15.1348	38.2929	38.2929
DN	HF_known11	cluster_1	SPE	12235	1771.805	17481	18040	171.2345	0.6885	0.5385	0.001	0.001	9344	150563	76.665	1643	23596	11.194	841	12235	6.9401	9.0058	9.0058	51.1869	51.1869	
DN	HEK1_2	cluster_1	SPE	7777	1129.607	1032	1235	63.2621	0.6881	0.5393	0.001	0.0044118	7777	10262	51.563	177	2307	7.179	2307	7777	5.7763	7.7763	7.7763	32.2034	33.5801	
DP	TK1_3	cluster_1	DN	2609	2187.824	2609	2609	15.2433	0.6881	0.5394	0.001	0.0010435	2609	2609	52.94	509	585	23.56	436	2609	6.7587	6.7587	6.7587	26.09	26.09	
SPE	FL1_4	cluster_5	Common_I_1	12599	18256.377	19218	18573	196.9841	0.6879	0.5396	0.001	0.001	7101	92567	63.122	2313	29272	19.961	971	12599	8.5641	12.599	11.675	41.9801	42.9045	
SPE	EK1_1	cluster_5	Common_I_1	6904	10167.793	9828	10489	194.5001	0.6879	0.5398	0.001	0.0014229	5908	5904	24.833	4619	41177	19.061	779	6904	13.2716	13.1819	13.1819	18.6651	18.6651	
DP	TK1_5	cluster_1	DN	16888	24414.44	24999	25990	276.2351	0.6879	0.5399	0.001	0.0014229	16888	16888	51.136	1764	16888	51.136	1764	16888	6.4003	6.4003	6.4003	11.7104	11.7104	
DN	TK15_1	cluster_1	SPE	9116	13254.823	12923	13525	184.2622	0.6878	0.54	0.001	0.0010435	7804	142057	75.115	1054	3196	9.6421	513	9116	4.8215	6.8215	6.8215	46.6717	46.6717	
SPE	EG1_3	cluster_5	Common_I_1	5549	8026.979	79886	8134	401.6852	0.6877	0.5401	0.001	0.001	32104	473366	74.244	7938	112282	17.29	818	5549	8.4853	11.2828	11.2828	49.0778	49.0778	
DP	TK1_7	cluster_1	DN	23608	33442.03	33847	34821	301.1461	0.6876	0.5401	0.001	0.001	21586	22951	51.568	7908	16841	15.056	3522	23608	5.3174	10.3385	10.3385	30.2114	30.2114	
SPE	EG1_2	cluster_5	Common_I_1	8246	12009.916	119251	120871	485.1864	0.6868	0.542	0.001	0.001	46634	71154	11617	169240	17.203	5522	8246	8.3805	11.9833	11.9833	48.7154	48.7154		
DN	TK20_2	cluster_1	SPE	8071	11753.597	11459	12051	172.2743	0.6867	0.5422	0.001	0.0010435	8151	122755	73.627	1228	17521	9.787	576	8071	4.6422	6.3447	6.3447	48.3015	48.3015	
DP	SP10_2	cluster_1	SPE	8529	12402.238	12286	12872	153.9788	0.6867	0.5423	0.001	0.0010435	8529	127021	71.706	11974	8489	14.849	522	8529	4.7309	6.5443	6.5443	48.9055	48.9055	
SPE	KF12_2	cluster_5	Common_I_1	74928	109135.098	108462	110014	478.9009	0.6866	0.5425	0.001	0.001	39036	56201	65.133	12334	176242	16.745	7288	74928	6.9475	13.5029	13.5029	41.1731	41.1731	
SPE	SP4_2	cluster_5	Common_I_1	12317	178624.88	178461	180689	69.4322	0.6866	0.5426	0.001	0.001	57022	97921	67.232	11708	272423	15.122	7483	12317	8.656	13.123	13.123	12.8747	12.8747	
DN	MAF_known10	cluster_1	SPE	9287	12826.508	12325	13830	175.5659	0.6861	0.5425	0.001	0.0010435	9699	170271	71.706	11974	8489	14.849	522	9287	4.2105	5.5452	5.5452	50.0907	50.0907	
DP	FOK3_4	cluster_3	DN	2147	3128.659	2964	3294	99.9779	0.6863	0.543	0.001	0.0010435	1629	21340	50.833	521	6382	12.24	169	2147	5.1383	10.7445	10.7445	33.4415	33.4415	
DP	MAF_known10	cluster_3	DN	10139	14776.614	14470	15078	185.9096	0.6862	0.5434	0.001	0.0010435	7909	87167	53.303	2609	28034	17.143	926	10139	6.2001	11.7082	11.7082	11.6317	11.6317	
DN	KF12_1	cluster_1	SPE	5453	7945.616	7680	8186	152.265	0.6863	0.543	0.001	0.0010435	4685	56.333	1295	14663	15.417	426	5453	4.9897	6.9078	6.9078	18.8574	18.8574		
DN	SOX_1	cluster_1	SPE	6193	17048.865	16857	17239	119.8384	0.6859	0.544	0.001	0.0010435	2713	2713	71.549	1299	12823	7.9629	1479	6193	4.2666	5.7406	5.7406	53.8111	53.8111	
DN	SOX_1	cluster_1	SPE	6193	17048.614	16874	17239	119.8378	0.6856	0.5446	0.001	0.0010435	8206	98330	71.552	1227	14484	10.482	3203	6193	5.0216	7.1048	7.1048	46.3803	46.3803	
DN	TK2_1	cluster_1	SPE	2424	3522.58	3424	3628	61.6711	0.6854	0.5451	0.001	0.0010435	2713	4716	46.65	4662	474	7.732	2424	2424	5.2813	5.2813	5.2813	52.7246	52.7246	
DN	SOX_4	cluster_1	SPE	6664	9770.489	9307	9999	137.8641	0.6852	0.5455	0.001	0.0010435	6282	9558	74.138	957	13666	14.567	455	6664	6.640	7.1294	7.1294	47.444	47.444	
DP	SOX1_3	cluster_3	DN	3660	5545.054	5138	5590	147.004	0.6848	0.5462	0.001	0.0010435	2288	32032	48.779	847	11219	17.084	264	3660	5.7735	11.2585	11.2585	32.8222	32.8222	
DP	TK1_3	cluster_1	DN	2222	22993.629	23008	23024	307.9025	0.6848	0.5464	0.001	0.0010435	2222	2299	50.429	509	6154	13.989	670	2222	6.1574	13.8407	13.8407	17.6807	17.6807	
SPE	MFC_1	cluster_5	Common_I_1	15816	21927.136	22787	23460	200.5117	0.6845	0.5469	0.001	0.001	10319	114073	63.425	3425	36786	26.453	1443	15816	8.9929	13.6648	13.6648	42.1314	42.9946	
SPE	SOX_3	cluster_2	DP	3410	4982.676	4736	5211	142.6816	0.6844	0.547	0.001	0.0010435	3533	53489	50.073	583	8749	9.6263	326	3410	5.1514	6.7372	6.7372	38.8792	38.8792	
SPE	TK1_3	cluster_1	DN	18420	27337.468	27820	29064	204.265	0.6844	0.5471	0.001	0.0010435	18420	18420	51.568	7908	20317	6.863	990	18420	20.517	21.9564	21.9564	33.9269	33.9269	
DP	SOX_1	cluster_3	DN	2940	4310.045	4095	4513	123.2874	0.6843	0.5473	0.001	0.0010435	1698	27382	48.21	615	9157	18.029	189	2940	5.1537	10.8491	10.8491	30.7317	32.1889	
SPE	EG1_4	cluster_5	Common_I_1	12900	18740.031	18574	19213	198.8012	0.6834	0.5482	0.001	0.001	7152	93169	64.953	2327	29418	20.509	996	12900	8.9912	13.802	13.802	42.8019	42.8019	
DP	TK10_3	cluster_1	SPE	4802	7194.243	7483	8023	102.4817	0.6833	0.5483	0.001	0.0010435	4802	4802	51.568	7908	18417	6.863	990	4802	20.517	21.9564	21.9564	33.9269	33.9269	
DN	SOX1_3	cluster_1	SPE	4283	6270.005	6688	6475	119.4756	0.6831	0.5487	0.001	0.0010435	4092	57447	70.134	688	9269	11.336	311	4283	5.238	7.6002	7.6002	44.5559	46.2078	
DN	HEK1_1	cluster_1	SPE	924	1353.112	1298	1408	34.7723	0.6831	0.5488	0.001	0.0012632	1814	16345	82.401	201	1706	8.0005	104	924	4.6582	5.7332	5.7332	54.1618	54.1618	
DP	TK1_1	cluster_1	DN	2609	3033.17	2609	2609	17.0281	0.6831	0.5488	0.001	0.0010435	2609	2609	52.94	509	585	23.56	436	2609	6.7587	6.7587	6.7587	26.09	26.09	
DP	SP1_1	cluster_1	SPE	5528	8992.507	7852	8293	121.2393	0.6831	0.5488	0.001	0.0010435	5455	93730	50.008	2742	16293	8.746	933	5528	2.6839	5.9376	5.9376	39.616	39.616	
DP	NEAT1_1	cluster_3	DN	9859	1441.903	14052	14892	251.4613	0.6827	0.5507	0.001	0.0010435	4535	87510	54.48	1524	27428	17.076	521	9859	5.1269	11.8874	11.8874	26.2661	26.2661	
DP	TK1_1	cluster_1	DN	9859	2192.567	14052	14892	251.4613	0.6826	0.5509	0.001	0.0010435	4535	87510	54.48	1524	27428	17.076	521	9859	5.1269	11.8874	11.8874	26.2661	26.2661	
SPE	FL1_4	cluster_5	Common_I_1	15011	19123.539	18806	19445	189.1518	0.6825	0.5512	0.001	0.001	7443	97009	66.151	3313	29272	19.961	1007	15011	6.3565	13.5955	13.5955	43.454	43.454	
SPE	SOX1_3	cluster_2	DP	3524	5164.331	4495	5360	128.5206	0.6824	0.5512	0.001	0.0010435	3663	54981	62.433	612	8556	9.7157	242	3524	4.0016	6.6066	6.6066	39.5425	41.1875	
DP	TK1																									

SP4	GMR3_3	cluster_5	Common_ID_N	3323	4976.249	4833	5141	94.3839	0.6678	0.5824	0.001	0.0010435	2133	30178	72.468	509	6963	16.721	238	3323	73977	11.58	11.013	46.793	47.727
DN	SKXL1_1	cluster_3	DN	2921	3937.4	3937	4219	93.5315	0.6677	0.5827	0.001	0.0010439	2921	4219	70.266	443	3208	17.382	202	2921	73977	11.58	11.013	46.793	47.727
DP	FOXJ1_4	cluster_4	SP4	2575	3856.842	3676	4038	112.4989	0.6677	0.5827	0.001	0.0010439	1950	2575	51.042	678	7807	10.678	200	2575	11.711	10.264	40.187	31.8471	
DP	SOX5_1	cluster_4	SP4	1783	2670.738	2576	2807	156.0313	0.6677	0.5827	0.001	0.0010439	1880	1618	33.930	618	5390	16.018	200	1783	5.388	10.988	10.4987	33.3625	
DP	FOXO3_3	cluster_3	DN	2721	4052	201.3448	2581	101.0659	0.6677	0.5827	0.001	0.0010439	2721	2581	49.608	408	499	10.608	200	2721	11.58	11.013	46.793	47.727	
SP4	FTV1_1	cluster_5	Common_ID_N	5407	8106.61	7817	8375	172.3973	0.667	0.5842	0.001	0.0010429	5001	4274	25.882	3077	31478	10.955	601	5407	3099	12.076	11.9428	46.793	47.727
SP4	ELK1_1	cluster_5	Common_ID_N	7159	10734.663	10398	11049	186.3545	0.6669	0.5844	0.001	0.0011429	6700	56640	26.22	4627	4619	17.961	798	7159	3.314	12.7373	12.6395	17.265	
DP	MAP_knowm9	cluster_3	DN	4412	6566.6	6664	7064	102.0652	0.6668	0.5843	0.001	0.0010435	2845	4412	71.066	5183	6167	14.412	3295	4412	11.58	11.013	46.793	47.727	
DP	HMGJ_4	cluster_2	DN	6255	9936.742	9644	10213	168.0065	0.6668	0.5848	0.001	0.0010435	4747	6672	54.16	1457	19052	15.5	485	6255	3.838	10.217	9.9516	33.876	
SP8	SOX1_2	cluster_2	DP	2570	3856.03	3648	4057	124.4424	0.6666	0.5812	0.001	0.0010435	2647	4372	56.757	1471	7079	9.46	162	2570	1.5444	6.101	6.051	34.949	
DP	TRK4_1	cluster_3	DN	6829	10234.99	10245	10470	120.8997	0.6662	0.5833	0.001	0.0010435	6406	7108	59.668	2026	2366	12.866	988	6829	6.1665	6.1665	6.1665	6.1665	
DN	FOXO3_4	cluster_3	SP8	2472	3713.523	3586	3853	81.1074	0.6668	0.5869	0.001	0.0010435	2345	30568	41.9	419	5263	15.267	193	2472	12.561	8.203	8.0869	46.0621	
DP	SPB_1	cluster_3	DN	10488	15979.5154	15487	15979	156.0711	0.6658	0.5869	0.001	0.0010435	15445	91370	50.008	5324	31674	16.982	1752	10488	5.6233	11.2448	10.7676	33.1223	
SP4	ELK3_2	cluster_5	Common_ID_N	6969	10515.603	10347	10888	194.0979	0.6654	0.587	0.001	0.0010435	6107	6107	61.07	4626	4626	13.138	6969	6969	12.772	12.772	12.772	12.772	
DN	FU1_4	cluster_3	SP8	4406	6624.213	6438	6793	113.5136	0.6662	0.5882	0.001	0.001	8392	111995	76.37	690	8773	5.9824	340	4406	3.005	1.9572	1.9341	49.2754	
DN	PNKD2_3	cluster_3	SP8	8249	12402.093	12164	12626	139.7377	0.6652	0.5882	0.001	0.0010435	13787	15314	71.649	1632	17576	6.2032	717	8249	1.845	5.4775	46.0172	46.0172	
DN	MIR15_5	cluster_3	SP8	2596	3903.15	3765	4035	80.3353	0.6651	0.5883	0.001	0.0010435	3352	57284	82.002	322	4806	16.5	2596	2596	3.7162	4.6653	4.5338	15.0879	
SP4	ATF2_2	cluster_5	Common_ID_N	7284	10952.817	9796	11183	130.2253	0.6651	0.5884	0.001	0.0010435	5130	56548	66.855	1556	16788	15.56	664	7284	8.4667	12.9435	12.8811	42.735	
DP	SOX14_4	cluster_4	SP4	2627	3951.403	3736	4140	130.1863	0.6649	0.5888	0.001	0.0011429	1805	25291	45.839	676	8954	16.229	194	2627	4.7614	10.7479	10.7479	26.692	
DP	MAP_knowm1	cluster_3	SP8	20583	29956.564	30348	31565	341.6075	0.6649	0.5889	0.001	0.001	24308	367004	53.477	4027	58735	6.559	3372	20583	2.9992	5.6442	5.6084	34.07	
DP	SP1_knowm4	cluster_4	SP4	5135	22841.549	22403	23251	260.1941	0.6648	0.589	0.001	0.0010435	13368	174316	51.393	3409	43240	13.244	1171	5135	4.6511	8.7597	8.7112	33.5179	
SP4	FTV4_2	cluster_5	Common_ID_N	5308	7987.005	7711	8256	164.3963	0.6646	0.5895	0.001	0.0011429	4946	44382	25.767	3500	33215	18.122	591	5308	3.0816	12.0465	11.9528	16.857	
DN	MAP_knowm10	cluster_3	SP8	7436	11149.417	10914	11385	143.3555	0.6647	0.5901	0.001	0.0010439	21107	22400	74.849	1423	15177	9.2609	680	7436	4.5288	6.1223	6.0507	47.7864	
DN	SOX14_4	cluster_3	SP8	3067	4617.382	4858	4995	98.1393	0.6641	0.5901	0.001	0.0011429	2731	38267	69.358	529	6964	14.622	226	3067	5.5589	8.7574	8.6147	44.0408	
DN	HES7_1	cluster_3	SP8	4669	7030.333	6859	7179	94.333	0.6642	0.5904	0.001	0.0010435	12542	138883	78.225	845	9092	5.1321	429	4669	2.6355	3.4205	3.3691	50.7692	
DP	MGA_3	cluster_2	DN	8237	12499.139	12129	12568	221.0881	0.6638	0.5911	0.001	0.0010439	4692	79902	56.395	1383	22542	15.51	489	8237	5.856	10.422	10.384	36.906	
DP	MVC_knowm13	cluster_3	DN	12562	18930.65	18542	19326	221.0889	0.6636	0.5916	0.001	0.0010439	9100	101216	56.829	3113	38619	12.816	1148	12562	4.7931	12.816	12.816	36.7768	
DN	TRK13_1	cluster_3	SP8	8641	13027.2	12839	13211	112.7843	0.6633	0.5922	0.001	0.0010439	20050	14370	74.719	2569	17653	9.1862	1240	8641	6.0473	6.0187	6.0187	48.186	
DN	ERG_2	cluster_3	SP8	4512	6833.377	6855	7001	109.9741	0.6633	0.5923	0.001	0.001	8341	108611	75.508	739	9238	6.3877	500	4512	3.124	4.1272	4.1272	40.811	
DP	FOXO3_5	cluster_3	SP8	21890	32993.643	32625	33373	214.4007	0.6632	0.5925	0.001	0.0010435	37211	45128	75.797	4092	44229	10.978	1992	21890	8.0116	8.0116	8.0116	48.6804	
DP	TCF7L1_1	cluster_3	SP8	10982	16793.156	16205	17000	275.0921	0.663	0.5929	0.001	0.0010435	8494	136328	68.468	2221	24617	12.357	689	10982	3.9236	6.1878	6.1878	33.0221	
DP	TRK3_1	cluster_3	DN	10221	15410.83	15211	15493	136.646	0.6629	0.5931	0.001	0.0010435	10212	14123	107.912	2388	2586	10.212	4143	10221	4.143	5.5113	5.5113	47.82	
DP	POU2F2_knowm1	cluster_3	DN	5125	7824.491	7513	8124	192.2374	0.6627	0.5936	0.001	0.0010435	4722	49255	50.993	935	15805	16.363	292	5125	10.2774	10.5269	10.3863	33.2299	
DN	SOX14_2	cluster_3	DN	3489	5178.7	5015	5316	92.6452	0.6622	0.5947	0.001	0.0010435	4224	46656	72.886	900	7315	11.428	349	3489	3.5368	7.4317	7.4317	46.5072	
DP	FOXO3_5	cluster_5	Common_ID_N	5683	8600.697	8396	8823	143.5255	0.6621	0.5948	0.001	0.0010435	5042	5683	79.177	5683	8916	11.737	5683	5683	5.1173	7.3137	7.3137	42.8061	
DP	TCF7_2	cluster_3	SP8	16856	11627.497	11587	11703	146.1718	0.6618	0.5955	0.001	0.001	40033	687127	49.845	11617	169240	17.203	5148	16856	7.8123	11.4116	11.1851	44.3144	
DP	FTV4_2	cluster_3	SP8	7817	11984.429	17410	18309	260.2455	0.6615	0.5962	0.001	0.0010435	9236	149704	69.564	2397	27354	12.182	740	7817	3.8857	7.9455	7.9069	33.1738	
DP	TCF7_knowm2	cluster_3	SP8	2289	3489.712	3280	2013	352.1217	0.6612	0.5969	0.001	0.0010435	24487	24487	24.487	1289	1409	5.642	2289	2289	1.5422	4.4899	4.4899	37.984	
DN	ELK1_1	cluster_3	SP8	2956	4472.693	4386	4555	52.5417	0.6611	0.5973	0.001	0.001	11101	94245	84.428	674	5337	4.8313	369	2956	2.6738	3.1808	3.164	54.7478	
SP4	MIR14_1	cluster_5	Common_ID_N	16293	24657.207	24305	24996	206.5982	0.6608	0.5977	0.001	0.0010435	11555	130065	67.885	3336	36648	19.128	1443	16293	8.5013	12.5288	12.5288	44.4581	
DN	MAP_knowm13	cluster_3	SP8	4520	6904.699	6923	7395	135.2711	0.6607	0.5978	0.001	0.0010435	4652	5958	84.786	494	494	6.117	4520	4520	5.1176	6.5402	6.5402	48.3006	
DN	EP2_1	cluster_3	SP8	5788	8760.877	8595	8927	102.2418	0.6607	0.5979	0.001	0.001	5607	104773	81.344	1019	8509	15.699	533	5788	4.4937	5.5475	5.5475	38.6765	
DN	SMAD3_1	cluster_3	SP8	12661	19167.97	18940	19738	141.5203	0.6605	0.5983	0.001	0.0010435	26078	216611	73.645	3179	26335	8.9536	1515	12661	4.3046	5.8095	5.8095	47.525	
DN	SOX1_2	cluster_3	SP8	2189	3404.699	3237	3568	106.3529	0.6605	0.5987	0.001	0.0010435	2189	2189	21.89	1009	1009	6.117	2189	2189	4.4312	5.299	5.299	43.009	
SP8	RUNX3_3	cluster_5	Common_ID_N	58170	88988.134	87228	88846	522.5941	0.6604	0.5987	0.001	0.001	23891	424349	65.225	2083	18843	12.062	13562	58170	8.9392	13.7051	13.7051	41.648	
DN	SMAD3_3	cluster_3	SP8	2451	3712.483	3620	3814	67.3657	0.6603	0.5988	0.001	0.0010435	4812	43323	75.24	570	5013	8.7061	570	2451	4.7627	5.7149	5.7149	48.2929	
DP	SOX1_2	cluster_3	SP8	5618	8564.746	8623	8909	157.5711	0.6603	0.5989	0.001	0.0010435	4709	4709	47.09	2324	2324	5.204	5618	5618	6.4441	7.3924	7.3924	49.2008	
DN	FTV4_2	cluster_3	SP8	4027	6170.825	6010	6347	105.6764	0.6599	0.5996	0.001	0.0010435	4683	63288	71.723	618	8653	9.943	316	4027	4.8791	6.448	6.448	45.878	
SP4	FTV5_1	cluster_5	Common_ID_N	11620	17608.299																				

DP	TCF7_2	cluster_1	SPB	8838	18366151	13338	11871	191.5283	0.6482	0.0001	0.0010435	5040	11815	49.917	2583	27860	11.889	808	8838	3.735	75460	7.202	31.285	31.953	
DP	TRK5_2	cluster_1	SPB	2811	11122.204	10774	11484	205.9523	0.6482	0.0001	0.0010435	10774	11484	205.9523	0.6482	0.0001	0.0010435	10774	11484	205.9523	0.6482	0.0001	0.0010435	10774	11484
DN	FTV4_1	cluster_4	SPB	19158	19181432	19039	19573	162.7415	0.6482	0.0001	0.0010435	15466	49070.70	74.751	4933	26049	3.9725	14809	12518	1.809	25548	3.0388	47.0269	48.0556	
DN	FTV1_1	cluster_4	SPB	14183	21893.994	21467	22287	241.9311	0.6478	0.0003	0.0010435	15156	154289	52.346	4262	40229	14.259	1449	14183	1.939	92146	5.1925	33.3884	33.7472	
DN	HPV1_4	cluster_4	SPB	3664	563242	5494	5823	102.5789	0.6478	0.0003	0.0010435	26254	79427	62.624	616	59622	20.622	1047	3664	0.622	79427	36.622	46.222	46.222	
DN	PKNOX1_2	cluster_3	DN	17355	26800.192	26449	27153	219.1404	0.6476	0.0009	0.0010435	20444	161159	58.804	3960	46144	16.837	2386	17355	10.819	108159	10.7689	37.0583	37.6723	
DP	HRV-ARNT1-HP1A_1	cluster_1	Common_IDN	5430	8392.234	8111	8648	166.8821	0.6471	0.0028	0.0010435	9569	106489	50.266	1569	15823	7.9634	448	5430	2.5704	51625	5.1135	31.485	32.7772	
DP	GATA_Know16	cluster_4	SPB	2755	4360.068	4096	4399	92.2465	0.6468	0.0026	0.0010435	3024	39849	49.778	529	6610	11.243	215	2755	0.5659	11088	6.0467	41.6793	41.6793	
DN	GATA_Know16	cluster_4	SPB	9501	14691.134	14184	15168	299.7355	0.6467	0.0027	0.0010435	4004	84333	48.865	1561	30959	17.939	458	9501	15.886	112661	11.2661	29.3402	30.889	
DN	SPC_1	cluster_4	SPB	3318	1610.996	14947	1416	144.0448	0.6467	0.0028	0.0010435	1516	1516	1516	1516	1516	1516	1516	3318	0.0047	1516	1516	1516	1516	
DN	SPC_1	cluster_4	SPB	16337	25261.139	24829	25721	281.0411	0.6467	0.0028	0.0010435	13902	181122	51.494	8926	49711	14.118	1256	16337	4.6391	90047	10.0347	31.9918	32.644	
DN	CUK2_1	cluster_4	SPB	494	764.755	669	494	764.755	0.6467	0.0029	0.0012632	1302	6022	56.539	91	1512	14.196	30	494	0.0039	91463	9.0009	32.967	32.672	
DN	COWP_1	cluster_4	SPB	2302	1418.118	3302	4327	48.7915	0.6464	0.0032	0.0010435	2302	2302	2302	2302	2302	2302	2302	2302	0.0032	2302	2302	2302	2302	
DN	TCF7_1	cluster_4	SPB	10595	28785.157	28257	29364	341.5373	0.6464	0.0004	0.0010435	9126	149704	48.544	3884	59721	19.529	1167	10595	6.006	12492	10.4212	32.983	31.1365	
DN	TRK2_1	cluster_4	SPB	10570	16466.676	16052	16200	179.1099	0.6458	0.0007	0.0010435	10367	188839	47.729	1137	21623	8.866	627	10570	5.3974	10570	5.3974	47.6082	48.8831	
DP	SP1_Know6	cluster_3	DN	3848	29056.677	28746	29788	291.1554	0.6458	0.0013	0.0010435	11360	174116	51.393	4306	52729	16.923	1457	3848	5.7711	103892	10.8125	31.4116	31.7901	
DN	SOX2_6	cluster_4	SPB	2715	4208.506	4026	4364	96.7034	0.6452	0.0032	0.0010435	2362	37807	70.103	424	6325	11.728	172	2715	1.0342	47282	5.0566	42.9449	42.9449	
DN	SOX2_6	cluster_4	SPB	5367	8319.664	8026	8620	177.0932	0.6451	0.0033	0.0010435	3625	54432	49.299	1220	17382	15.743	361	5367	4.8008	93888	9.886	29.5902	30.8768	
DP	SPC_2	cluster_3	DN	20933	21626.208	21057	21494	323.8888	0.6448	0.0013	0.0010435	14969	195470	52.699	4773	60128	16.343	2572	20933	5.498	104077	10.4238	32.953	33.6418	
DP	HESX1_2	cluster_4	SPB	798	1238.522	1118	1351	71.8033	0.6446	0.0035	0.0014418	733	10262	51.563	192	2480	12.511	57	798	0.0096	77763	6.9875	29.875	32.0482	
DN	TCF7L1_2	cluster_4	SPB	17002	26376.64	25854	26887	311.4073	0.6446	0.0035	0.0010435	8494	136288	48.648	3526	50502	19.651	1068	17002	6.0088	123736	12.4751	30.2893	30.8835	
DN	TCF7L1_2	cluster_4	SPB	8384	12611.504	12675	13132	192.1251	0.6444	0.0034	0.0010435	10255	116448	51.095	2407	25669	11.242	766	8384	3.6787	7.771	7.1998	31.8238	32.4345	
DN	POU2F2_Know5	cluster_3	DN	4155	6450.717	6359	6608	100.0406	0.6442	0.0045	0.0010435	4460	60686	74.223	780	8882	10.986	329	4155	1.9866	7.0001	6.8467	46.0685	46.2592	
DN	SOX13_3	cluster_3	DN	4248	6596.317	6355	6845	149.9002	0.644	0.0038	0.0010435	2769	38663	47.284	1064	14226	17.398	308	4248	5.1952	113835	10.9872	28.9474	29.8608	
DN	TCF7L1_2	cluster_4	SPB	3364	5224.621	5057	5393	101.9858	0.6439	0.0035	0.0010435	3603	61420	79.657	422	6854	8.8931	203	3364	4.2626	5.5797	4.4747	47.6203	47.6203	
DN	SOX18_2	cluster_4	SPB	3043	4727.434	4542	4995	127.5375	0.6438	0.0034	0.0010435	2288	32032	48.779	766	10021	15.26	223	3043	0.9899	52369	5.1233	31.6623	31.6623	
DP	PNOX2_3	cluster_4	SPB	5669	8653.391	8404	8887	148.5395	0.6435	0.0031	0.0010435	9600	106895	49.891	1632	17576	8.2032	503	5669	2.9932	93465	5.2098	30.8211	31.6853	
DP	HRF4_2	cluster_4	SPB	7154	11122.204	10774	11484	205.9523	0.6432	0.0035	0.0010435	10774	11484	205.9523	0.6432	0.0035	0.0010435	10774	11484	205.9523	0.6432	0.0035	0.0010435	10774	11484
DN	MSRP_1	cluster_1	SPB	11516	18330.205	18316	18757	139.4411	0.6431	0.0039	0.0010435	14484	401632	76.45	2782	24456	4.6552	1328	11516	2.9826	29669	31.7584	48.7422	49.1741	
DN	MSB1_1	cluster_4	SPB	8469	11373.45	12946	13395	134.5718	0.6429	0.0037	0.0010435	15445	93270	50.008	4466	26386	14.228	1435	8469	4.5408	91063	10.0801	31.6858	31.9252	
DN	MSB1_1	cluster_4	SPB	3311	1323.764	13021	1461	136.2646	0.6429	0.0037	0.0010435	1001	1254	1254	1001	1254	1254	1001	3311	0.154	13021	1.54	5.8145	5.8145	
DN	SPB_2	cluster_3	DN	22519	35098.025	34662	35426	337.577	0.6428	0.0037	0.0010435	16181	214653	58.087	5238	66158	10.5732	10052	22519	15.9483	105732	15.39	33.6671	33.7803	
DN	FOXO3_2	cluster_3	DN	29173	46239.852	45647	46885	370.4035	0.6426	0.0038	0.0010435	20170	275133	56.268	6537	83739	16.984	2293	29173	22.959	108828	13.0773	33.7923	33.7923	
DN	TCF7L1_2	cluster_4	SPB	6041	9641.112	9006	9646	176.3133	0.6426	0.0037	0.0010435	6041	9641	9641	6041	9641	9641	6041	6041	0.0037	9641	9641	9641	9641	
DN	NEL1_1	cluster_4	SPB	8157	12697.73	12501	12896	112.0472	0.6424	0.0034	0.0010435	10473	136291	76.106	1898	16062	9.482	906	8157	5.5545	106041	5.985	47.6818	48.2606	
DN	SOX13_1	cluster_4	SPB	3343	5205.302	4986	5414	127.2156	0.6423	0.0037	0.0010435	2452	31970	50.662	809	10464	16.367	264	3343	1.3779	10467	10.467	30.3977	31.2704	
DN	SOX13_1	cluster_4	SPB	2002	3130.992	3033	3231	60.8958	0.6423	0.0037	0.0010435	1807	26166	60.621	377	5826	12.773	107	2002	0.8646	57623	5.7273	31.6139	31.6139	
DN	MAP_Know10	cluster_1	SPB	5116	7973.784	7751	8179	140.3705	0.6416	0.0041	0.0010435	7909	87167	53.303	1423	15177	9.2809	449	5116	1.3185	5.9	5.8692	32.9455	33.7089	
DN	TCF7_2	cluster_4	SPB	14129	22025.443	21572	22417	247.6098	0.6415	0.0045	0.0010435	10707	118115	49.917	1413	14691	18.887	1282	14129	11.9735	11.9621	11.9621	31.1316	31.1316	
DN	TCF7L1_Know5	cluster_3	DN	17881	28088.052	27379	28480	335.2433	0.6415	0.0045	0.0010435	17881	28088	335.2433	0.6415	0.0045	0.0010435	17881	28088	335.2433	0.6415	0.0045	0.0010435	17881	28088
SP4	RUNX3_3	cluster_5	Common_IDN	5400	84213.756	83344	84943	498.8421	0.6413	0.0049	0.0010435	28111	405511	62.285	8003	139576	21.016	13625	5400	5.8029	184209	13.5256	38.7435	39.4837	
DN	CTCF_Know1	cluster_1	SPB	20592	32115.099	31339	32970	514.6297	0.6412	0.0041	0.0010435	26314	479996	27.636	6625	81826	6.8106	1145	20592	11.878	43313	4.2981	17.283	17.4411	
DN	CTCF_Know1	cluster_1	SPB	2457	5002.665	4973	5292	103.2808	0.6412	0.0041	0.0010435	2457	5002	103.2808	0.6412	0.0041	0.0010435	2457	5002	103.2808	0.6412	0.0041	0.0010435	2457	5002
DN	HRV-ARNT1-HP1A_1	cluster_3	Common_IDN	11782	18387.303	18049	18737	209.3955	0.6408	0.0041	0.0010435	15566	154289	52.346	3973	35299	11.976	11782	11782	3.7373	6.683	6.683	32.965	33.0623	
SP4	HRV-ARNT1-HP1A_1	cluster_3	Common_IDN	18084	18778.732	18635	19129	158.8836	0.6406	0.0042	0.0010435	13161	10345	70.53	3290	26751	18.343	1487	18084	8.2926	11594	11.594	44.2857	45.2095	
DN	SOX13_2	cluster_4	SPB	5346	8421.376	8264	8421	146.4583	0.6405	0.0042	0.0010435	5346	8421	146.4583	0.6405	0.0042	0.0010435	5346	8421	146.4583	0.6405	0.0042	0.0010435	5346	8421
DN	SOX13_2	cluster_4	SPB	4132	6451.556	6218	6711	150.9321	0.6405	0.0042	0.0010435	2714	38842	48.471	3031	13594	16.564	282	4132	1.5164	10.7426	10.38	30.558	30.558	

DN	ELK4_2	cluster_4	SPA	4673	7477813	7200	7902	1821984	0.625	0.6792	0.001	0.001429	4819	70078	26.176	3236	28879	10.695	522	4673	4.7707	6.676	6.6117	16.131	
DN	RTS_know17	cluster_4	SPA	5472	8801.483	13669	9808	1674891	0.624	0.6935	0.001	0.001429	7665	61564	14261	3185	87157	32.066	518	518	2.4604	8.936	8.936	22.706	
DN	MWCV_2	cluster_1	SP8	5997	9603.129	9456	7897	37.3613	0.6245	0.6792	0.001	0.001	21157	191106	79.065	1383	12270	5.0764	668	5997	2.4811	3.173	3.173	48.308	
DN	BATL_know1	cluster_3	SPA	4480	7174.844	6930	7439	153.8855	0.6245	0.6793	0.001	0.0010435	3507	45701	55.784	1070	13651	15.767	366	4480	5.7773	9.866	9.866	32.3364	
DN	RUN16_4	cluster_1	SP8	4202	4472.665	4792	4629	103.6515	0.6245	0.6793	0.001	0.0010435	2812	45202	55.784	988	11737	17.927	276	4202	5.5123	9.737	9.737	48.8753	
DN	TRK20_2	cluster_1	SP8	397	8501.336	8139	8837	205.8146	0.6243	0.6797	0.001	0.0010435	5116	92297	53.087	482	16294	9.3719	580	397	5.8033	5.803	5.803	32.5703	
DN	SP1_1	cluster_1	SP8	32684	52399.33	51893	52850	297.9355	0.6242	0.6798	0.001	0.001	58732	857887	77.786	4890	68733	6.2321	2274	32684	2.9635	3.8718	3.8718	3.8098	
DN	WFI4-DANT_1	cluster_1	SP8	4218	4405.945	4073	4085	50.8657	0.6242	0.6798	0.001	0.0010435	2695	45466	55.784	988	11737	17.927	276	4218	5.5123	9.737	9.737	48.8753	
DN	FTV3_1	cluster_4	SPA	2095	4486.263	4295	4471	128.8748	0.6239	0.6805	0.001	0.0010435	15305	48305	55.777	914	12858	18.818	1099	2095	5.8319	5.8319	5.8319	15.71	
DN	ATFS_know5	cluster_1	SP8	1899	17642.523	17331	17929	178.8662	0.6235	0.6816	0.001	0.001	54750	206515	71.894	1826	24906	9.3719	373	1899	3.4522	5.326	5.326	43.0997	
DN	SOX_1	cluster_1	SP8	4088	7885.029	4071	4088	120.7025	0.6234	0.6817	0.001	0.001429	2008	2008	55.784	988	11737	17.927	276	4088	5.5123	9.737	9.737	48.8753	
DN	SMAD1_1	cluster_3	DN	32755	54158.356	53476	54824	421.8312	0.6231	0.6821	0.001	0.001	20385	356038	68.84	9495	57.788	2460	32755	5.4878	5.4878	5.4878	34.129		
DN	TCF7L_2	cluster_4	SPA	12336	18042.445	13987	20185	242.2054	0.6212	0.6828	0.001	0.0010435	15015	166448	51.095	3684	39785	17.28	1117	12336	5.4278	10.6208	10.6208	30.6615	
DN	TCF12L_1	cluster_4	SPA	6826	11426.128	6881	6881	11.81	0.6211	0.6829	0.001	0.001	11181	87.3121	0.6848	24129	14749	4889	5148	14.674	6826	6.4274	6.4274	6.4274	46.1698
DN	SP1_know3	cluster_1	SP8	2479	39824.601	39461	40219	233.9419	0.6214	0.6864	0.001	0.001	47942	629373	40.02	5185	6.4665	1908	2479	3.1209	3.9757	3.9757	39.336		
DN	ATFS_3	cluster_1	SP8	2716	4172.583	4167	4581	126.1745	0.6212	0.6868	0.001	0.0010909	3413	44407	51.027	688	8653	9.943	298	2716	6.1162	6.1162	6.1162	30.3779	
DN	ELK4_2	cluster_3	SPA	3310	5331.461	5073	5584	153.8206	0.6209	0.6875	0.001	0.001429	6179	53790	56.333	2266	20215	6.661	368	3310	15.942	5.9537	5.9537	16.2401	
DN	TRK21_6	cluster_4	SPA	9730	15673.811	15235	16107	272.945	0.6208	0.6878	0.001	0.0010909	7546	136200	53.52	1741	29870	11.377	541	9730	18.234	7.1694	7.1694	33.5745	
DN	ELK4_1	cluster_3	SPA	3409	5492.825	5280	5724	139.5943	0.6207	0.688	0.001	0.001429	6415	57946	26.224	2319	29764	9.703	379	3409	5.7901	5.908	5.908	16.4893	
DN	ATFS_know5	cluster_1	SP8	14111	22194.776	22320	22366	288.9251	0.6204	0.6888	0.001	0.001	21154	158203	55.075	3073	41829	14.562	14111	4.9325	6.933	6.933	32.9645		
DN	SOX_3	cluster_4	SPA	4013	6468.788	6193	6734	168.0387	0.6203	0.6889	0.001	0.0010909	2800	4424	49.139	905	13558	14.918	256	4013	4.4154	6.9228	6.9228	28.273	
DN	TCF7L_2	cluster_1	SP8	5007	8168.89	7925	8437	158.1588	0.6203	0.6889	0.001	0.001	11430	148923	52.886	1237	13984	15.687	390	5007	7.9794	3.4121	3.4121	33.5279	
DN	TRK1_2	cluster_1	SP8	2428	2270.841	2134	2410	83.0208	0.6203	0.689	0.001	0.0010909	2151	23810	47.054	512	4957	9.762	142	2428	2.782	5.9125	5.9125	28.048	
DN	SOX_1	cluster_4	SPA	2599	4191.469	3976	4438	141.3633	0.6202	0.6893	0.001	0.0010909	1096	27182	48.21	600	8890	16.094	168	2599	4.7052	9.894	9.894	28.251	
DN	ELK4_1	cluster_1	SP8	2542	4105.761	3985	4232	66.6597	0.6192	0.6915	0.001	0.001	10681	85897	77.625	674	5337	4.8231	317	2542	2.2972	2.9735	2.9735	47.6298	
DN	TRK1_2	cluster_1	SP8	2107	17794.89	14744	18146	196.2441	0.6196	0.691	0.001	0.0010909	9585	95562	52.327	3446	33705	18.73	2107	6.1167	11.702	11.702	32.6569		
DN	HEX_1	cluster_3	DN	10513	16698.287	16726	17266	175.3313	0.6185	0.6912	0.001	0.0010435	5992	110416	62.236	3533	27443	15.493	957	10513	5.9442	9.5777	9.5777	37.7813	
DN	FOX02_2	cluster_1	SP8	4947	8000.563	7474	8227	141.007	0.6184	0.6914	0.001	0.0010435	9614	73565	57.489	1112	14358	11.261	685	4947	3.866	6.747	6.747	33.5069	
DN	FOX01_1	cluster_1	SP8	5442	8801.483	8531	9948	140.2194	0.6184	0.6935	0.001	0.0010435	4665	61564	56.333	424	5336	11.261	427	5442	5.5123	9.737	9.737	48.8753	
DN	ETV6_2	cluster_3	DN	6492	11238.782	10921	11592	211.3141	0.6177	0.695	0.001	0.001429	9680	87477	23.63	1679	87424	22.785	714	6492	10.965	17.949	17.949	14.5157	
DN	HESS_1	cluster_3	DN	10395	16838.278	16480	17144	199.584	0.6174	0.6958	0.001	0.0010435	3090	100696	60.849	2563	27859	15.978	949	10395	5.9618	9.8449	9.8449	36.8093	
DN	HESS_2	cluster_3	DN	14728	24674.714	24726	24674	121.3116	0.6174	0.6958	0.001	0.0010909	4814	58261	60.849	2563	27859	15.978	949	14728	5.9618	9.8449	9.8449	36.8093	
DN	HESS_3	cluster_3	DN	7926	12848.821	12568	13145	176.3173	0.6169	0.6969	0.001	0.0010435	6241	75044	56.627	2031	23575	17.475	766	7926	10.6714	10.6714	10.6714	33.6204	
DN	AHR-ABNT_HF1A_1	cluster_1	SP8	1233	5065.601	4973	5167	58.5188	0.6166	0.6976	0.001	0.0010435	14502	19844	81.912	761	6231	4.2739	398	1233	2.1414	2.6005	2.6005	50.1043	
DN	TRK2_1	cluster_1	SP8	3420	5426.071	5420	5420	129.2549	0.6165	0.6976	0.001	0.001	14502	19844	81.912	761	6231	4.2739	398	3420	5.4612	5.4612	5.4612	30.6615	
DN	LM02_2	cluster_1	SP8	1384	2246.373	2132	2390	70.6089	0.6163	0.6984	0.001	0.0010435	3407	27568	53.54	541	4238	8.302	174	1384	2.7711	5.0755	5.0755	32.1627	
DN	TRK1_2	cluster_1	SP8	4900	7964.574	7624	8233	186.4885	0.6153	0.7007	0.001	0.0010909	4390	79089	50.708	933	14006	10.262	237	4900	3.8147	6.1956	6.1956	29.2605	
DN	SP1_know2	cluster_1	SP8	5962	9070.789	9041	9714	338.5164	0.6153	0.7007	0.001	0.0010909	4941	18039	78.778	778	10436	12.788	489	5962	5.9618	6.1956	6.1956	30.6615	
DN	SP0F_4	cluster_1	SP8	5476	8909.56	8576	9232	191.6648	0.6147	0.7001	0.001	0.0010435	4744	94414	52.37	1288	12752	9.7187	370	5476	3.5074	5.8	5.8	33.2539	
DN	ID_1	cluster_1	SP8	8481	13721.146	13421	14053	194.8844	0.6145	0.7026	0.001	0.0010435	35081	317383	54.366	3083	28444	4.9557	937	8481	14.833	2.6547	2.6547	33.5337	
DN	SP0F_2	cluster_1	SP8	4208	4901.3	4701	4940	73.8308	0.6143	0.7021	0.001	0.0010435	35081	317383	54.366	3083	28444	4.9557	937	4208	5.9618	6.1956	6.1956	30.6615	
DN	FOXP1_1	cluster_4	SPA	15773	25692.699	24984	26359	409.6924	0.6139	0.7039	0.001	0.0010435	83193	191364	48.307	3083	58974	15.195	745	15773	4.0641	6.8424	6.8424	24.1401	
DN	TCF4_1	cluster_4	SPA	8955	14587.825	14270	14905	189.9499	0.6139	0.7039	0.001	0.0010909	93969	352888	54.334	3083	27113	4.1348	987	8955	1.8366	2.5324	2.5324	33.3386	
DN	SOX_3	cluster_1	SP8	4228	5467.265	5225	5760	129.2467	0.6136	0.704	0.001	0.001	6228	45566	60.849	2563	27859	15.978	949	4228	5.9618	6.1956	6.1956	30.6615	
DN	SP_1	cluster_1	SP8	11818	19587.949	19641	19833	337.872	0.6134	0.7052	0.001	0.001	11719	267744	21.027	8019	16472	7.6085	966	11818	6.94578	4.5611	4.5611	12.0539	
DN	MAP_know10	cluster_1	SP8	6267	10225.677	9855	10496	161.0037	0.6129	0.7063	0.001	0.0010909	7909	87167	53.303	1814	19075	11.909	572	6267	3.8323	7.2323	7.2323	33.4458	
DN	TRK5_1	cluster_1	SP8	5442	8801.483	8531	9948	140.2194	0.6128	0.7063	0.001	0.0010435	4665	61564	56.333	424	5336	11.261	427	5442	5.5123	9.737	9.737	48.8753	
DN	TRK5_2	cluster_1	SP8	10850	17711.802	17384	18159	217.6397	0.6126	0.707	0.001	0.0010435	14352	192788	54.157	2025	33402	9.9665	717	10850	3.2147	10.850	10.850	33.5165	
DN	RUN6_1	cluster_4	SPA	21984	35890.429	35884	36269	244.7515	0.6125	0.707															

DN	FTV4_2	cluster_4	SPA	2051	3483311	3232	3615	118.2899	0.5974	0.7432	0.001	0.001429	7010	45275	26.285	1473	43370	7.646	228	2051	11907	4.5509	4.5301	15.4786	15.5733
DN	HFC_known0	cluster_4	SPA	1302	2873388	21412	22315	174.9474	0.5974	0.7432	0.001	0.001429	5018	32028	26.285	1473	43370	7.646	228	2051	11907	4.5509	4.5301	15.4786	15.5733
DN	HFA_1	cluster_3	DN	3233	5564377	5356	5813	136.6497	0.5973	0.7436	0.001	0.0010435	2787	39153	57.73	712	9749	14.375	239	3233	16339	8.7554	8.7565	34.8472	34.8555
DN	SOX19_9	cluster_1	SPA	2099	4371563	4152	4604	133.3796	0.5969	0.7444	0.001	0.0010435	2814	38418	46.89	717	9597	11.416	189	2099	3263	3.1036	3.1076	16.6188	16.7186
DN	FTV4_1	cluster_4	SPA	2432	4993548	2800	3198	121.9023	0.5966	0.7446	0.001	0.0010435	2746	36365	46.26	705	9456	12.855	189	2432	3657	2.8857	2.8912	15.2317	15.3315
DN	SOX13_1	cluster_4	SPA	2198	3683483	3442	3861	115.2132	0.5966	0.7446	0.001	0.0010909	2600	25424	51.067	555	7626	15.318	215	2198	4408	5.8444	5.8474	24.7072	24.8124
DN	MGA_3	cluster_1	SPA	4097	6867769	6489	7162	180.2818	0.5966	0.7461	0.001	0.0010909	4692	79902	56.395	760	12420	8.7519	242	4097	28916	5.1377	5.1397	15.1275	15.3043
DN	HW_known1	cluster_4	SPA	2622	5070287	5973	6466	153.8921	0.5962	0.7462	0.001	0.0010435	4286	61029	47.422	603	8360	12.762	189	2622	3928	3.4286	3.4326	16.2086	16.3084
DN	PXND1_9	cluster_4	SPA	6672	1193667	10868	11531	291.6591	0.5961	0.7464	0.001	0.0010435	9569	106189	50.266	6075	21938	10.620	600	6672	14583	6.2702	6.2811	26.9817	27.0884
DN	SOX5_9	cluster_4	SPA	3446	5781344	5493	6045	161.4777	0.5961	0.7465	0.001	0.0010909	2184	34944	45.366	584	12307	17.146	219	3446	4478	5.8466	5.8515	24.7738	24.8736
DN	HFA2_2	cluster_1	SPA	1618	3737381	3481	3924	96.5222	0.5949	0.7453	0.001	0.0010909	1745	2583	35	325	4329	10.219	109	1618	2421	3.0259	3.0299	15.0771	15.1769
DN	KLF16_1	cluster_1	SPA	4180	69103171	68548	69598	321.5073	0.5947	0.7498	0.001	0.001	87857	880098	74.479	8192	11683	7.1912	3097	4180	8179	4.4208	4.4238	42.4017	42.5015
DN	SP4_1	cluster_1	SPA	52377	8812031	87380	88771	428.1711	0.5944	0.7505	0.001	0.001	90089	1024641	78.36	6913	94437	5.6042	1083	52377	12324	3.3205	3.3241	43.6569	43.7567
DN	HFB16_1	cluster_1	SPA	4188	7091262	49691	51179	147.4515	0.5941	0.7506	0.001	0.0010909	45069	492167	67.966	6202	81909	10.212	3097	4188	8179	4.4208	4.4238	42.4017	42.5015
DN	EPF8_1	cluster_3	DN	7311	12322204	12021	12567	168.2703	0.5942	0.7511	0.001	0.001	7146	78795	61.175	700	12824	20.860	402	7311	15839	9.4039	9.4077	34.9272	35.0271
DN	KLF4_1	cluster_1	SPA	37891	61783208	63305	64250	280.2514	0.5941	0.7513	0.001	0.001	90040	870001	74.9	9288	128850	7.6413	4072	37891	13221	4.3553	4.3593	43.0879	43.1877
DN	SOK4_2	cluster_1	SPA	3779	6362213	6111	6621	149.8405	0.5941	0.7513	0.001	0.0010909	3904	56025	51.393	588	12721	18.081	257	3779	5294	6.5461	6.5511	29.8928	30.044
DN	TBK21_4	cluster_4	SPA	7546	12703899	12299	13155	251.3911	0.594	0.7514	0.001	0.0010909	7045	105923	52.17	1793	24847	12.238	508	7546	37166	4.2187	4.2236	29.3133	29.4131
DN	SOX6_9	cluster_1	SPA	2407	405415	3833	4287	144.6747	0.5938	0.7519	0.001	0.0010909	2184	34944	45.366	515	9236	11.149	154	2407	31149	7.0513	7.0562	28.0007	28.1005
DN	HW_known4	cluster_4	SPA	3250	2835488	31789	32662	382.9594	0.5935	0.7527	0.001	0.001	11110	235509	51.643	6125	62808	14.142	940	3250	42692	4.2692	4.2741	18.1738	18.2736
DN	SOK4_1	cluster_1	SPA	10293	17367518	16963	17594	247.122	0.5927	0.7547	0.001	0.0010435	10641	173284	54.726	2132	36462	10.366	649	10293	12868	6.0991	6.1029	33.4009	33.5007
DN	MAF0_1	cluster_1	SPA	5610	9473329	9133	9816	196.487	0.5922	0.7558	0.001	0.0010435	5947	11937	52.184	971	18472	10.787	283	5610	7453	3.2463	3.2502	19.1452	19.2450
DN	HFA1_3	cluster_1	SPA	6813	1150571	11176	11789	188.1086	0.5922	0.7559	0.001	0.001	12915	169590	60.621	1462	18557	16.544	522	6813	21565	4.0418	4.0457	35.7045	35.8043
DN	HMGAL1_2	cluster_4	SPA	5624	9489205	9422	9774	165.2194	0.5921	0.7561	0.001	0.0010435	6477	66572	54.16	1373	18136	14.7554	404	5624	7557	4.8506	4.8545	29.4246	29.5244
DN	TBK5_3	cluster_1	SPA	6597	11421391	10876	11440	161.2242	0.5921	0.7561	0.001	0.001	14895	134213	54.181	2358	20762	8.9821	736	6597	26632	4.9413	4.9453	31.1219	31.2217
DN	HFA1_1	cluster_5	Common_1_DN	9236	16456554	16133	16803	197.6598	0.5916	0.7572	0.001	0.0010435	9880	92466	67.496	1557	24649	11.958	800	9236	76911	6.2022	6.2061	33.6028	33.7026
DN	TBK15_1	cluster_4	SPA	6551	11074405	10661	11457	227.4853	0.5916	0.7574	0.001	0.0010909	5512	99328	52.536	1292	21552	12.399	970	6551	13469	6.7126	6.7165	29.1339	29.2337
DN	FTV1_1	cluster_1	SPA	9677	9937466	9636	10273	209.9912	0.5914	0.7578	0.001	0.0010435	10048	70432	42.896	4328	49239	14.259	5877	9677	15944	8.3442	8.3481	35.8207	35.9205
DN	TBK19_1	cluster_1	SPA	3596	6081633	5794	6367	172.3565	0.5914	0.7579	0.001	0.0010435	3308	63063	49.328	692	12512	11.969	180	3596	46316	5.7022	5.7061	27.4566	27.5564
DN	BPTF_1	cluster_1	SPA	9461	16000539	15424	16382	225.9593	0.5913	0.758	0.001	0.0010909	10063	164228	52.127	2436	31404	16.246	723	9461	28128	6.5949	6.5988	30.1267	30.2265
DN	FTV1_3	cluster_1	SPA	3277	6331174	6025	6568	146.7111	0.5913	0.758	0.001	0.001	3176	2814	37	426	4206	37.048	370	3277	4949	3.4448	3.4487	27.0101	27.1099
DN	FTV1_1	cluster_3	DN	2192	4044207	3819	4277	123.0807	0.591	0.7588	0.001	0.0010909	1586	46934	26.831	2702	16256	15.225	206	2192	31674	5.1992	5.2031	15.952	16.0519
DN	TBK5_3	cluster_4	SPA	8089	13691188	13419	13958	164.1927	0.5908	0.7591	0.001	0.001	54195	134213	54.181	2931	25601	10.3306	940	8089	20092	6.1092	6.1131	30.9483	31.0481
DN	HFA16_1	cluster_1	SPA	3279	5651465	5316	5806	148.1765	0.5908	0.7591	0.001	0.0010909	3005	48087	42.552	497	6352	12.252	187	3279	5311	3.1217	3.1256	19.1452	19.2450
DN	HFA1_1	cluster_1	SPA	1599	2708349	26785	27396	187.1191	0.5905	0.7601	0.001	0.001	34773	389734	77.181	3212	36318	7.0356	1425	1599	4399	3.167	3.1716	44.0903	44.1901
DN	HMGAL1_2	cluster_1	SPA	4379	7349182	7102	7598	150.842	0.5905	0.7601	0.001	0.0010435	4477	66572	54.16	1026	14634	11.417	1339	4379	5339	3.53	3.537	29.6468	29.7466
DN	FTV1_1	cluster_1	SPA	2387	4911714	3848	4197	99.4913	0.5902	0.7608	0.001	0.001	2044	2162	21	24	246	35.608	284	2387	3569	4.6427	4.6466	16.7079	16.8077
DN	BPTF_known1	cluster_1	SPA	8468	1451506	14106	14596	151.3894	0.5901	0.761	0.001	0.0010909	36158	261819	56.235	2620	27516	5.5324	1188	8468	18188	6.2828	6.2867	32.1877	32.2875
DN	BPTF_1	cluster_4	SPA	10230	17343161	16917	17505	244.8592	0.5899	0.7615	0.001	0.0010909	10063	164228	52.127	2650	34033	12.132	1030	10230	16688	7.1513	7.1552	29.5849	29.6847
DN	HFA2_1	cluster_1	SPA	2622	44797878	4275	4652	124.6572	0.5897	0.7617	0.001	0.0010909	2658	4092	48	58	589	26.848	269	2622	3648	4.5488	4.5527	16.7079	16.8077
DN	HFA2_1	cluster_4	SPA	5047	8568719	8318	8818	177.59	0.5897	0.7617	0.001	0.0010909	5885	95562	53.227	1089	16343	9.0819	507	5047	6987	2.8047	2.8086	29.8465	29.9463
DN	HFA16_1	cluster_1	SPA	693	1177369	1083	1262	57.2132	0.5889	0.7618	0.001	0.0010909	1344	14803	55.839	285	2458	8.1403	693	693	2693	2.6141	2.618	30.7317	30.8315
DN	HFA16_1	cluster_4	SPA	2157	3699492	3227	3682	116.525	0.5888	0.7617	0.001	0.0010909	2371	36648	47.314	507	6068	10.212	187	2157	2802	3.5373	3.5412	16.7079	16.8077
DN	MSPF1_1	cluster_1	SPA	8041	13610116	13314	13875	174.4774	0.5888	0.764	0.001	0.001	37005	29479	56.054	2782	24456	4.6552	881	8041	29333	2.7124	2.7163	32.0273	32.1271
DN	PODF2_known1	cluster_1	SPA	2933	4981442	4740	5248	150.2811	0.5888	0.764	0.001	0.0010435	3272	49255	50.993	595	10409	14.409	184	2933	33065	6.025	6.0294	27.563	27.663
DN	SOK4_1	cluster_1	SPA	1793	2902216	2783	2925	83.0346	0.5888	0.764	0.001	0.0010435	1765	2658	36	43	438	35.628	312	1793	2399	3.1147	3.1186	16.7079	16.8077
DN	LMQD_1	cluster_1	SPA	6699	11978469	11042	11728	211.2969	0.5888	0.7642	0.001	0.001	29843	26246	50.177	3859	38297	4.9781	633	6699					

DP	HF_Inv1	cluster_1	SPR	6865	11954324	11619	12317	103732	0.5743	0.8001	0.001	6273	90082	51133	1643	23596	11394	475	6865	38967	75721	76208	281920	29099	
DP	HF2_1	cluster_1	SPR	2382	4235294	6520	4980	1414349	0.5691	0.8135	0.001	8357	102703	58312	6746	31433	1644	2382	3013	5849	34651	72809	74441	282200	32000
DP	HF2_2	cluster_1	SPR	5836	10216856	100843	103930	7375789	0.5739	0.8011	0.001	48089	1172596	5651	7941	17955	50438	12631	5836	29638	49514	50014	303614	34446	
DP	SPR6_6	cluster_1	SPR	3069	5349399	5177	5531	1063386	0.5737	0.8016	0.001	8067	117376	70334	572	7714	44568	2200	3069	17963	25384	25251	38458	39788	
DP	RUN2_1	cluster_1	SPR	554135	1069507	554135	1069507	1069507	0.5742	0.8021	0.001	60177	90020	50221	60177	90020	50221	60177	90020	50221	60177	90020	50221	60177	90020
DN	AR2_1	cluster_4	SPR	970	1692156	3011	1772	509265	0.5733	0.8025	0.001	10021632	18000	80027	181	2339	13048	74	970	5720	7389	7324	40884	43329	
DN	HF2_2	cluster_4	SPR	2029	3539707	3398	3701	893024	0.5733	0.8025	0.001	0.0004345	3111	33116	55275	694	6615	206	2029	33867	62317	62317	29683	306727	
DP	TCF2_Inv1	cluster_1	SPR	7182	12036348	12281	12822	7474044	0.5733	0.8025	0.001	0.0004345	10021632	18000	80027	181	2339	13048	74	7182	12036	12036	70441	70441	
DP	SMAD3_3	cluster_1	SPR	1584	2766262	2623	2900	782635	0.5726	0.8043	0.001	0.0004345	3177	32023	5527	570	5013	87662	176	1584	2751	4203	49188	303772	
DP	EF2R_1	cluster_1	SPR	3781	6605384	6389	6811	1301848	0.5725	0.8047	0.001	0.0004345	3146	78995	61175	1040	11009	87461	347	3781	29355	48559	47985	343446	
DP	TCF2_1	cluster_1	SPR	2962	5470161	33888	34982	1217442	0.5725	0.8047	0.001	0.0004345	3296	51863	61175	1040	11009	87461	347	2962	5470	5470	52183	343446	
DP	RUN2_2	cluster_1	SPR	7452	13022566	12673	13398	217021	0.5723	0.8053	0.001	0.0004345	16438	25133	60887	1481	21763	53809	484	7452	18083	30052	2965	33558	
DN	ARND_4	cluster_3	DN	1400	2607207	2400	2794	1043916	0.5717	0.8067	0.001	0.001333	307	15963	50765	739	5462	73	1400	1470	1784	16328	16328	272794	
DP	RUN2_4	cluster_1	SPR	5427	1022548	9370	9797	1360917	0.5719	0.8069	0.001	0.0004345	1469	19396	53748	1539	5417	796	5427	796	5417	796	5417	796	5417
DP	SOX1_1	cluster_1	SPR	1940	3395225	3321	3599	125732	0.5715	0.8071	0.001	0.0010909	2098	27182	4821	481	7166	12973	124	1940	15321	13027	17131	25776	
DP	PK1_2	cluster_4	SPR	2720	4760529	4350	4869	1354619	0.5715	0.8073	0.001	0.0004345	1695	33982	48403	746	10083	746	2720	1840	7800	80042	26004	30554	
DP	HF2_1	cluster_1	SPR	4398	7702217	7375	8030	1982348	0.5711	0.8084	0.001	0.0010909	4335	87310	5448	818	14633	5109	4398	2718	5199	50257	26064	30554	
DP	SOX1_2	cluster_1	SPR	2479	4342461	4249	4603	1325672	0.5709	0.8086	0.001	0.0010909	2513	35262	49216	679	9108	12712	179	2479	1346	73032	26323	272178	
SP4	CUX1_1	cluster_2	DP	340	596279	528	657	393897	0.5709	0.8086	0.001	0.0012632	439	7949	74631	51	888	8372	20	340	31922	45558	42773	38283	
DP	HF2_2	cluster_1	SPR	2157	2056565	19977	20862	2457051	0.5708	0.8089	0.001	0.001	40096	42099	54065	3559	38297	13959	2157	13959	25848	25828	29713	30406	
DP	HF1_1	cluster_4	SPR	4259	746514	7236	7721	1533493	0.5706	0.8096	0.001	0.0004345	4549	54705	50814	1056	1562	16339	283	4259	41561	79741	79741	27972	
DP	HF1_2	cluster_3	DN	35918	6300773	62383	67320	1041514	0.5701	0.8108	0.001	0.001	38298	54911	61594	7345	10082	11679	2555	35918	43983	65387	65387	384756	
DP	CUX1_3	cluster_1	SPR	6262	11103899	11306	11769	5011781	0.5694	0.8125	0.001	0.001	72010	59394	6512	1429	16276	64	6262	4234	6803	65392	352217	38906	
DP	MW1_5	cluster_1	SPR	1718	3015823	2843	3181	1041656	0.5698	0.8115	0.001	0.0004345	2441	44252	63347	322	4890	7	109	1718	24593	37977	38823	33859	
DP	HF2_2	cluster_4	SPR	6124	10755599	10438	11083	1992937	0.5694	0.8125	0.001	0.001	5746	77752	53165	1455	20483	14006	634	6124	41474	79692	79692	29282	
DP	MW1_5	cluster_4	SPR	12173	10755599	11306	11769	5011781	0.5694	0.8125	0.001	0.001	72010	59394	6512	1429	16276	64	12173	4234	6803	65392	352217	38906	
DP	MW1_5	cluster_4	SPR	1989	3495564	3316	3668	1047054	0.5691	0.8132	0.001	0.0004345	2741	44252	63347	322	4890	7	109	1718	24593	37977	38823	33859	
DP	SOX1_5	cluster_1	SPR	2689	4725731	4027	4985	1521692	0.5691	0.8132	0.001	0.0004345	2721	4357	49369	655	9906	11228	172	2689	30478	61735	26295	35287	
DP	MG4_3	cluster_4	SPR	2784	6752934	6520	6980	1414349	0.5691	0.8135	0.001	0.0004345	8357	102703	58312	6746	31433	1644	2382	3013	5849	34651	72809	74441	
DP	SMAD3_3	cluster_4	SPR	4781	8403273	8117	8696	1671701	0.5691	0.8135	0.001	0.0004345	4692	79902	56395	597	15111	10465	282	4781	13744	61002	59836	30725	
DP	SMAD3_3	cluster_4	SPR	2004	359373	3446	3741	861393	0.5688	0.8139	0.001	0.0004345	3177	32203	5527	744	6513	11311	228	2004	3598	63472	61384	31384	
DP	AT1_4	cluster_1	SPR	4042	7182	8098	8590	1488787	0.5689	0.8141	0.001	0.0004345	6703	11309	61175	1040	11009	87461	347	4042	7182	7182	51488	365	
DP	SOX1_2	cluster_1	SPR	2449	4807274	4095	4535	1352418	0.5686	0.8145	0.001	0.0004345	2774	38842	48471	686	9166	11438	178	2449	16407	6305	25495	26783	
DP	POU2F3_1	cluster_4	SPR	3746	6097512	6308	6871	1617616	0.5679	0.8164	0.001	0.0004345	3007	4666	50134	940	13469	6740	252	3746	40248	8133	80279	27812	
DP	GATA_Inv1	cluster_1	SPR	3775	6096465	13018	13568	1664216	0.5679	0.8164	0.001	0.0004345	3007	4666	50134	940	13469	6740	252	3775	40248	8133	80279	27812	
DN	SPC_2	cluster_4	SPR	2123	37377139	36984	37741	2505448	0.5678	0.8165	0.001	0.0004345	2125	27517	74226	4012	51184	11799	1638	2123	7086	10617	40275	44641	
DP	POU2F3_Inv1	cluster_4	SPR	3928	6020466	6667	7230	184302	0.5677	0.8169	0.001	0.0004345	2228	4647	52381	1007	13662	15389	3928	3928	42245	87074	87074	28753	
DP	EF2R_1	cluster_1	SPR	2187	14956242	2187	2187	14956242	0.5677	0.8169	0.001	0.0004345	2187	14956242	2187	2187	14956242	2187	2187	2187	14956242	2187	2187	14956242	2187
DP	MAP_Inv1	cluster_1	SPR	6776	1194077	11590	12294	2161926	0.5675	0.8173	0.001	0.0004345	10294	16660	54212	1445	2264	73009	421	6776	12011	4008	4008	29149	
DP	CTCF_Inv1	cluster_1	SPR	9078	15931141	15318	16234	246847	0.5673	0.8177	0.001	0.0004345	10454	23553	28191	3610	8020	18617	565	9078	12011	3858	3858	15678	
DP	CTF_Inv1	cluster_1	SPR	795	1602169	795	795	1602169	0.5673	0.8177	0.001	0.0004345	795	1602169	795	795	1602169	795	795	795	1602169	795	795	1602169	795
DP	RUN2_5	cluster_1	SPR	14004	2543264	24972	25980	2943055	0.5664	0.8201	0.001	0.001	10885	36538	57788	3229	44540	22392	1051	14004	14062	24653	24653	31339	
DP	SMAD3_3	cluster_4	SPR	8177	14444363	14928	14867	2289882	0.5661	0.8208	0.001	0.001	17640	31092	61324	1429	24027	47516	407	8177	16371	26701	26701	38686	
DP	SOX1_1	cluster_4	SPR	2187	14956242	2187	2187	14956242	0.5677	0.8169	0.001	0.0004345	2187	14956242	2187	2187	14956242	2187	2187	2187	14956242	2187	2187	14956242	2187
DP	TK1_1	cluster_4	SPR	4366	7724508	7379	8090	2111061	0.5653	0.8229	0.001	0.0004345	3628	8308	49238	888	16009	15222	280	4366	34511	69238	69232	25009	
DP	SOX6_6	cluster_1	SPR	3379	5977219	5709	6258	1657465	0.5652	0.8231	0.001	0.0004345	3305	54432	49299	913	12456	11281	226	3379	30594	62059	25947	27195	
DP	POU2F3_2	cluster_1	SPR	1477	2563288	2436	2684	727893	0.5646	0.8247	0.001	0.0004345	2992	23182	50653	656	5138	11227	183	1477	1817	6327	6327	27863	
DP	SOX1_4	cluster_1	SPR	1545	2793146	2830	2989	1028187	0.564	0.8263	0.001	0.0012	1791	25128	47709	451	5993	11379	114	1545	29904	63672	62679	26287	
DP	POU2F3_2	cluster_4	SPR	6028	1079267	10281	11054	2383287	0.5637	0.8283	0.001	0.0004345	6402	10281	11054	2383287	6402	10281	11054	2383287	6402	10281	11054	2383287	6402
DP	ELK1_1	cluster_4	SPR	2443	4281212	4186	4398	627005	0.5637	0.8289	0.001	0.001	10661	8597	77625	703	5669	50327	2803	2443	2413	28092	421861	29137	
DP	SPR6_6	cluster_3	DN																						

DN	TCF7_1	cluster_4	SP4	22653	41235.41	40728	11260	314.4715	0.5494	0.8642	0.001000435	13527	21763	71.046	3834	52971	19.529	1420	22653	74076	104975	10.4265	37037	37.9314	
DN	SOX16_2	cluster_4	SP4	4731	1558.74	4546	4276	134.6615	0.5497	0.8647	0.001000435	3365	3767	12.837	990	10972	10.818	578	4731	30974	35123	20.523	30589	39.971	
DN	PCMP_1	cluster_3	DN	1141	14852.96	14570	17147	582.2	0.549	0.8651	0.001	0.001	10303	11372	63.225	2020	27906	11.181	742	2817	72018	4.5337	31.727	34.2664	
DN	FXYF_2	cluster_4	SP4	2497	4551.503	4457	4640	59.4807	0.5487	0.8659	0.001000909	5099	32994	72.569	1078	4208	6.865	19.999	418	2497	54592	7.568	38.7755	39.3902	
DN	FXYF_1	cluster_3	DN	691	1807.107	12227	11890	165.1027	0.5487	0.866	0.001000909	10047	32289	10.865	691	2399	3.8855	6.917	596	691	13454	5.0471	29.754	50.071	
DN	SPF4_2	cluster_3	DN	55374	100882.299	100663	101970	558.8334	0.5484	0.8668	0.001	0.001	56697	39054	67.242	9762	154277	10.829	3408	53794	59793	5.7804	34.9109	35.9488	
SPR	HEFL1_MAFG_1	cluster_4	SP4	16847	30774.65	30124	31304	361.8118	0.5483	0.8669	0.001000435	8430	177761	54.694	2840	57401	17.661	3807	16847	11885	9.573	54.773	28.4155	29.3497	
DN	TCF7L1	cluster_4	SP4	12426	22653.11	22211	22964	251.2755	0.5482	0.867	0.001000435	13987	12616	68.248	2353	27431	17.661	3807	12426	22653	15.855	35.9664	25.5635	35.9664	
DN	GSK3_1	cluster_4	SP4	4463	8141.731	7989	8291	93.5159	0.5482	0.8672	0.001000435	5190	57165	75.199	1068	11228	5.477	14.4	4463	5477	7.9969	7.8072	31.748	39.7488	
DN	STAT1_innov2	cluster_4	SP4	6176	11268.936	10966	11575	186.2608	0.5481	0.8675	0.001	0.001	8789	176424	66.894	910	17211	6.5258	312	6176	2.3417	3.5499	3.5007	34.2857	35.884
DN	TRAF3_5	cluster_4	SP4	1600	2008.201	18827	18661	235.2658	0.5481	0.8682	0.001000909	1806	10021	75.76	4609	6754	4.6209	16.002	1600	1600	1.756	10.808	6.185	29.021	
DN	TCF3_1	cluster_3	SPR	19984	32881.812	32392	33416	118.8648	0.5478	0.8684	0.001001429	49855	709316	57.352	4255	58143	4.7023	11.628	19984	15.445	2.5614	2.536	30.0118	30.9306	
DN	TCF7_2	cluster_4	SP4	16784	30796.97	30645	31340	220.7566	0.5478	0.8685	0.001000435	15544	107157	70.642	4118	44491	18.837	15.738	16784	16954	1.4549	10.1426	37.3482	37.9396	
DN	TCF12_1	cluster_4	SP4	4716	1798.862	18211	18111	245.6471	0.5478	0.8686	0.001	0.001	19413	116478	69.616	3507	31141	15.844	798	4716	2.4117	4.1106	4.106	32.0209	32.0209
DN	TCF7L1_1	cluster_4	SP4	2075	37888.853	37369	38330	254.0445	0.547	0.8704	0.001000435	12139	108117	70.718	8326	55052	19.651	1301	2075	2.7975	10.4238	10.461	37.4462	37.4462	
DN	HEK1_1	cluster_4	SP4	544	995.449	807	1089	52.9479	0.5469	0.8705	0.0012632	1124	10227	15.054	235	1983	3.997	6.1	544	2475	7.2427	5.3718	28.9774	28.9774	
DN	MAFG_1	cluster_4	SP4	7111	13002.917	12609	12847	119.841	0.5469	0.8706	0.001000435	5947	11934	52.384	1341	23537	11.101	356	7111	1.1135	5.9662	5.9664	26.5474	28.0435	
DN	STAT1_innov1	cluster_4	SP4	7643	13986.898	13693	14240	165.9208	0.5465	0.8718	0.001	0.001	11028	22110	89.13	910	17211	6.5258	388	7643	2.988	3.5383	3.4535	44.0274	44.0274
DN	POU2F2_innov11	cluster_4	SP4	3173	5808.385	5839	6001	112.1241	0.5464	0.8721	0.001000435	3816	38242	51.233	1193	11573	11.504	234	3173	4.209	8.4008	8.2972	27.1584	27.1584	
DN	FOG1_innov12	cluster_3	DN	3427	62842.183	62129	63531	407.0481	0.5462	0.8724	0.001	0.001	72010	959384	65.127	7774	95654	6.0902	3050	3427	2.3035	3.6446	3.5788	34.8242	34.8242
DN	POU2F2_innov13	cluster_3	DN	46545	85233.951	84369	86018	519.5773	0.5461	0.8728	0.001	0.001	50191	833640	66.56	8501	131962	10.538	2885	46545	3.7171	5.748	5.5846	33.9772	33.9772
DN	POU2F2_innov14	cluster_4	SP4	5338	9778.754	9494	10056	163.6126	0.5459	0.8732	0.001000909	3197	67338	78.85	740	13862	15.389	264	5338	6.0777	8.2777	8.2777	37.5	39.0719	
DN	STAT1_innov15	cluster_3	DN	3352	24891.896	24558	25196	187.8464	0.5459	0.8733	0.001000909	15444	21822	75.51	2050	24023	12.122	1033	3352	4.8417	6.5106	6.4142	38.9083	38.9083	
DN	STAT1_innov16	cluster_4	SP4	5618	10292.11	9377	9690	186.2476	0.5459	0.8733	0.001000435	6252	137400	63.695	869	16490	16.844	284	5618	2.6844	4.1448	4.0888	35.7215	35.7215	
DN	SOX14_2	cluster_4	SP4	3568	6537.2	6384	6716	101.1678	0.5459	0.8734	0.001000435	4224	46556	72.886	866	9223	14.408	327	3568	5.574	7.7415	7.7415	37.7598	38.6859	
DN	HEK1_1	cluster_3	DN	2590	4769.619	47029	48234	375.1665	0.5451	0.8731	0.001	0.001	24443	320337	63.079	5551	76425	15.094	3850	2590	4.657	7.4668	7.3827	34.0072	34.0072
DN	EPF_innov16	cluster_4	SP4	1104	2411.15	2257	2580	98.0616	0.5452	0.8732	0.001000435	1515	25773	59.554	267	4221	9.76	78	1104	1.0383	5.1485	5.0984	29.135	29.135	
DN	ATF3_3	cluster_4	SP4	4480	8222.872	8032	8417	117.5852	0.5449	0.876	0.001000909	4863	63388	72.723	930	11616	13.348	346	4480	5.4779	7.7149	7.7149	37.008	38.5675	
DN	SH3BP1_2	cluster_4	SP4	6499	11933.988	11916	12185	156.8624	0.5446	0.8767	0.001000435	26452	123756	56.699	3769	42629	17.918	2718	6499	3.192	5.2329	5.2329	30.589	30.589	
DN	SOX_1	cluster_4	SP4	1582	10240.39	9548	10156	117.8399	0.5441	0.8781	0.001000435	5180	70005	50.837	1772	29522	14.903	467	1582	2.0709	8.0033	7.9737	26.344	27.0021	
DN	MYC_2	cluster_1	SPR	1460	2684.406	2643	2828	89.031	0.5441	0.8792	0.001000435	2439	32999	60.53	315	4541	8.4317	98	1460	2.7109	4.5603	4.4877	31.111	32.1515	
DN	MYC_1	cluster_1	SPR	496	9102.118	9006	9181	404.4521	0.5431	0.8797	0.001000909	10027	9766	10308707	1967	19947	14.629	7966	496	496	1.482	4.7084	4.7084	28.844	28.844
DN	EPF2_2	cluster_4	SP4	2706	4980.362	4737	4918	138.7913	0.5434	0.8798	0.001000909	2804	47811	58.459	551	10776	15.7661	140	2706	6.776	9.7961	9.6574	30.6074	30.6074	
DN	FOXO_1	cluster_4	SP4	6277	11556.954	11311	11811	144.382	0.5432	0.8805	0.001000435	6232	81801	74.85	3101	16241	14.861	420	6277	5.7436	7.9208	7.9208	38.6491	38.6491	
DN	TRAF3_2	cluster_4	SP4	3982	7042.189	7021	7469	188.3802	0.5432	0.8805	0.001000435	4040	54665	69.714	240	27989	60	306	3982	6.045	8.412	8.412	7.023	30.245	
DN	EK1_1	cluster_4	SP4	2511	4663.751	4564	4750	56.7383	0.5428	0.8815	0.001	0.001	11401	94325	84.428	1103	5669	5.0327	316	2511	2.2873	2.2873	2.2901	45.448	45.448
DN	SPR_1	cluster_4	SP4	9255	17095.101	16993	17590	134.3473	0.5426	0.8821	0.001	0.001	21179	267474	21.027	7107	84496	6.7622	739	9255	7.4227	13.3901	10.3982	10.9709	10.9709
DN	TCF11_1	cluster_4	SP4	2825	4483.17	4302	4583	64.7385	0.5425	0.8822	0.001000435	3955	54201	70.382	243	3499	15.837	971	2825	3.4909	5.6022	5.6022	34.874	34.874	
DN	TCF3_1	cluster_4	SP4	1723	3177.3	31243	32305	313.8133	0.5425	0.8824	0.001001429	49855	709316	57.352	4178	56573	4.9754	12.622	1723	1.399	2.4091	2.4091	29.3442	29.3442	
DN	STAT1_innov13	cluster_4	SP4	7125	13142.509	12890	13381	154.5607	0.5421	0.8836	0.001000435	8977	177940	82.488	869	16490	17.643	326	7125	3.389	4.003	4.003	41.6571	41.6571	
DN	MYC_1	cluster_4	SP4	1282	2365.586	2366	2323	47.0942	0.542	0.8839	0.001000909	1895	20248	58.689	209	26948	11.094	106	1282	1.765	2.8022	2.8022	30.6651	30.6651	
DN	TRAF2_2	cluster_4	SP4	539	906.802	8621	10236	193.7981	0.5419	0.8839	0.001000435	5192	92297	15.087	1131	39160	11.945	103	539	3.0574	5.903	5.8279	26.702	28.0471	
DN	SOX14_1	cluster_1	SPR	1396	3574.267	3396	3761	100.5022	0.5418	0.8842	0.001000909	2129	30688	48.463	589	7564	11.502	141	1396	1.0394	6.4325	6.3807	24.793	25.9489	
DN	STAT1_innov14	cluster_4	SP4	1027	1924.139	1844	2126	57.9129	0.5418	0.8845	0.001000435	1136	17039	26.041	173	24617	6.919	69	1027	0.7783	1.6917	1.6917	33.833	33.833	
DN	SOX_5	cluster_4	SP4	4957	9165.901	8939	9508	166.2499	0.5409	0.8867	0.001000909	6404	6402	73.448	174	13039	14.979	316	4957	1.8384	2.7802	2.7802	36.1565	36.1565	
DN	HEK1A_1	cluster_1	SPR	3508	4687.16	6300	6691	117.3987	0.5408	0.8867	0.001000435	11588	130466	68.094	879	13466	15.061	316	3508	3.5699	5.1639	5.1639	35.9499	36.0167	
DN	SH3BP1_1	cluster_4	SP4	6499	11933.988	11916	12185	156.8624	0.5406	0.8877	0.001000435	26452	123756	56.699	3769	42629	17.918	2718	6499	3.192	5.2329	5.2329	30.589	30.589	
DN	ERG_4	cluster_4	SP4	5513	10235.819	10025	10427	110.0919	0.5406	0.8874	0.														

SP4	TCF7_1	cluster_3	DN	15073	28601.661	28126	29065	286.8887	0.527	0.9241	0.001	0.00010435	17168	188705	61.707	3079	47321	15.474	941	15073	4.9289	8.0099	7.9876	30.5619	31.8527
SP4	TCF7_1	cluster_3	DN	9487	18204.689	18741	18200	115.5378	0.5267	0.9263	0.001	0.00010435	21011	28119	55.372	3975	44202	14.603	9408	15073	4.9289	8.0099	7.9876	30.5619	31.8527
SP4	TCF7L1_1	cluster_3	DN	16649	25941.488	25490	26387	269.8264	0.5262	0.9264	0.001	0.00010435	10788	17542	61.696	782	82959	15.288	854	13649	4.837	7.9183	7.8668	30.6973	31.8463
DN	TBK1_2	cluster_4	SP4	6806	19399.977	12627	13260	187.7931	0.5256	0.9269	0.001	0.00010909	6083	115007	73.738	1076	18201	11.67	385	6086	1.937	5.9179	5.7966	31.9844	31.9844
DN	TCF7L2_1	cluster_3	DN	12411	19666.12	18661	13895	123.4983	0.5255	0.9261	0.001	0.00010435	10441	16063	77.13	1441	17003	10.441	309	6829	1.937	5.9179	5.7966	31.9844	31.9844
DN	ETV6_1	cluster_4	SP4	2311	42496.409	42027	42904	272.4265	0.5253	0.9289	0.001	0.001	31966	46973	77.86	8191	95582	17.86	1567	23311	6.9885	4.7985	4.7519	39.2124	40.3037
DN	FIL1_4	cluster_4	SP4	5306	10020.251	9857	10317	127.4206	0.5253	0.9289	0.001	0.001	8592	111995	76.37	1063	13939	9.1869	409	5306	3.6382	4.7985	4.7519	39.2124	40.3037
DN	HMGA2_1	cluster_4	SP4	15299	18994.6	18111	16008	170.4014	0.5252	0.9289	0.001	0.00010435	10511	16039	77.13	1441	17003	10.441	309	6829	1.937	5.9179	5.7966	31.9844	31.9844
SP4	TCF3_2	cluster_3	DN	45952	91333.512	90238	92226	603.7072	0.5252	0.9295	0.001	0.00010435	23468	36425	66.199	11375	19427	26.003	3178	49273	16.9233	11.5418	11.5333	23.7607	24.0448
DP	MFI1_1	cluster_4	SP4	17565	29637.357	29224	30119	260.948	0.5248	0.93	0.001	0.001	24601	54113	68.67	3421	43884	5.5619	1179	15565	6.2727	2.9039	2.9039	34.4636	35.0669
SP4	TCF3_1	cluster_3	DN	7312	140486.295	138447	140486	622.1141	0.5247	0.9304	0.001	0.00010435	10788	17542	61.696	782	82959	15.288	854	13649	4.837	7.9183	7.8668	30.6973	31.8463
DP	IGFBP1_1	cluster_3	DN	17019	34125.555	33713	34562	253.1364	0.5247	0.9305	0.001	0.001	29511	33471	76.626	4776	52354	10.368	1588	17019	5.4486	5.8226	5.8226	31.4526	31.4526
DN	POU2F1.innov16	cluster_4	SP4	3074	5862.274	5812	6062	115.5167	0.5245	0.9311	0.001	0.00010909	3024	39409	67.778	737	9081	13.748	2078	3074	1.5285	1.7441	1.7441	32.9131	33.8434
DN	ETG_1	cluster_4	SP4	5409	10312.146	10088	10553	137.8811	0.5244	0.9316	0.001	0.00010435	8141	10409	71.007	1041	12831	10.441	419	5409	2.6991	3.0244	3.0244	34.7006	34.7006
SP8	TCF3_innov2	cluster_3	DN	10057	19184.529	18812	19570	231.5153	0.5242	0.9317	0.001	0.00010435	16485	129385	16.644	3108	34866	16.079	971	2003	3.4428	4.5777	4.5777	7.785	28.742
DN	CFE1.innov24	cluster_4	SP4	2713	5217.85	5041	5366	98.7976	0.5239	0.9327	0.001	0.001	3045	61420	79.657	431	4870	8.9098	164	2713	1.0073	1.5125	1.5125	30.681	30.681
DN	MGA_3	cluster_4	SP4	5947	19596.316	19111	11589	141.8976	0.5237	0.9332	0.001	0.00010909	6415	10463	77.13	1441	17003	10.441	309	6829	1.937	5.9179	5.7966	31.9844	31.9844
DN	FOXp1_1	cluster_4	SP4	16987	32498.208	31763	33163	419.0148	0.5237	0.9333	0.001	0.00010435	18078	26294	67.084	3085	58974	15.195	803	16987	4.3769	7.5201	7.5201	6.725	26.292
DP	ATF3.innov4	cluster_4	DN	7515	14552.417	14063	14648	190.734	0.5236	0.9334	0.001	0.001	8408	118904	67.508	1578	21515	12.273	539	7515	1.4273	6.4106	6.4106	33.1574	34.9291
SP4	FOXp1_1	cluster_3	DN	10646	20337.55	19869	20782	245.9791	0.5235	0.9337	0.001	0.00010909	7847	12237	55.431	2429	27937	16.885	666	10646	4.8668	6.8793	6.8793	28.4675	28.4675
DN	TBK2_2	cluster_4	SP4	7048	13467.294	13237	13792	142.1471	0.5234	0.9341	0.001	0.00010909	11786	11803	74.082	1911	18576	11.661	708	7048	1.4243	6.0771	6.0771	5.9722	37.0487
DP	MVCN_1	cluster_4	SP4	3937	7527.916	7327	7753	124.0852	0.5231	0.935	0.001	0.001	10303	13712	63.225	1121	12081	13.748	358	3937	1.3749	3.4623	3.4623	31.9358	32.5884
DN	TFE1_1	cluster_3	DN	21293	21514.96	21225	21915	211.5013	0.5228	0.9355	0.001	0.00010435	12356	14650	61.649	3302	32468	14.996	3302	21293	4.7725	7.7164	7.7164	31.9256	31.9256
DN	EPB1_1	cluster_4	DN	4333	8287.081	8134	8436	92.1604	0.5229	0.9353	0.001	0.001	9501	10473	60.844	989	10443	8.1077	400	4333	3.941	4.1356	4.1356	40.449	40.449
SP4	MAFK_1	cluster_3	DN	11291	21603.73	21084	22098	299.2616	0.5227	0.936	0.001	0.00010435	6447	129383	56.562	2000	39373	16.961	568	11291	4.9437	8.2103	8.2103	28.1188	29.1478
SP4	TCF7_2	cluster_3	DN	4952	4866.643	4796	5142	112.4477	0.5218	0.9385	0.001	0.00010909	4765	20429	55.372	3975	44202	14.603	9408	15073	4.9289	8.0099	7.9876	30.5619	31.8527
DP	MFI1_2	cluster_3	DN	10711	20572.849	20328	20897	203.8812	0.5216	0.9389	0.001	0.001	18029	185302	69.951	1276	27932	11.253	807	10711	3.5407	5.8156	5.8156	35.4569	35.4569
DN	SOX6_2	cluster_3	DN	7174	11973.31	11374	14029	162.0538	0.5215	0.9393	0.001	0.00010909	6301	94509	74.032	1348	19312	15.104	482	7174	1.6307	7.6496	7.6496	35.8631	37.1479
DN	FOXp1_1	cluster_3	DN	3302	6480.442	6282	6424	143.714	0.5211	0.9403	0.001	0.001	23341	6889	100.813	6889	100.813	10.441	309	3302	1.937	5.9179	5.7966	31.9844	31.9844
SP8	TCF3_innov7	cluster_3	DN	12144	23113.424	22934	23746	266.7575	0.5209	0.9409	0.001	0.00010435	11315	19528	54.266	3448	42486	14.42	874	12144	4.7446	7.7164	7.7164	27.737	28.855
DP	SP1.innov2	cluster_1	SP8	44784	85881.561	82385	86594	490.1204	0.5209	0.941	0.001	0.001	11519	104070	70.792	9148	120977	53.146	1327	44784	12.961	2.285	2.285	34.7806	35.8338
DN	MFI1_1	cluster_3	DN	2492	31460.861	3077	2824	98.9678	0.5207	0.9414	0.001	0.001	8107	10443	60.844	283	32137	11.885	83	2492	1.0432	3.1885	3.1885	43.142	43.142
DN	MAF.innov10	cluster_4	SP4	7422	14258.643	14020	14484	143.5695	0.5206	0.9419	0.001	0.00010909	1107	122400	74.489	1137	12400	13.748	679	7422	4.5886	6.0637	6.0637	37.3282	38.1124
DN	HMGA2_1	cluster_4	SP4	6961	13887.857	13115	13826	146.0347	0.52	0.9415	0.001	0.00010435	6789	95029	77.457	2487	18139	11.816	357	6961	1.6631	7.1313	7.1313	36.2624	36.2624
DP	MFI1_1	cluster_3	DN	2180	2286.652	21986	22866	274.0341	0.5202	0.942	0.001	0.00010435	19043	29043	67.248	3129	32848	12.273	1162	2180	1.4273	6.4106	6.4106	33.1574	34.9291
SP4	ETV1_1	cluster_3	DN	4218	13139.811	12906	13349	132.5024	0.5199	0.9453	0.001	0.00010435	4073	12752	67.378	2201	19610	10.383	757	6813	3.6074	5.7924	5.7924	34.935	34.935
DN	SOX13_3	cluster_3	DN	6258	8202.533	7945	8434	140.2072	0.5192	0.9467	0.001	0.00010909	4692	57347	70.134	902	12080	14.774	307	6258	1.937	5.9179	5.7966	31.9844	31.9844
DN	FOXp1_1	cluster_3	DN	8929	2799.427	26784	28541	254.8782	0.5192	0.9467	0.001	0.00010909	4947	62041	67.378	2201	19610	10.383	757	8929	1.937	5.9179	5.7966	31.9844	31.9844
DP	RUN2_5	cluster_1	SP8	11746	26447.886	22222	23084	274.6634	0.5187	0.9471	0.001	0.001	18740	10092	61.324	2169	78931	7.4537	685	11746	3.1823	3.8832	3.8832	37.879	37.879
SP4	RUN2_5	cluster_3	DN	3846	61590.11	64446	65904	498.6212	0.5187	0.9471	0.001	0.00010435	17866	264509	50.895	9259	129043	24.83	2388	3846	11.6507	12.7116	12.7116	26.2013	26.2013
DN	FOXp1.innov12	cluster_4	SP4	2714	1765	1757	1765	0.0000	0.5187	0.9471	0.001	0.00010435	17866	264509	50.895	9259	129043	24.83	2388	3846	11.6507	12.7116	12.7116	26.2013	26.2013
DN	PNDK1_2	cluster_4	SP4	8267	15841.145	15678	16188	158.6928	0.5186	0.9474	0.001	0.00010435	33712	15298	73.277	2075	22398	10.602	740	8267	3.0732	4.5069	4.5069	35.627	36.9205
DN	TCF3_2	cluster_3	DN	14385	27740.324	27397	28057	209.8252	0.5186	0.9474	0.001	0.00010435	19118	59154	77.209	2555	36881	4.7697	961	14385	1.8756	2.4567	2.4567	37.6125	38.3223
SP4	MFI1.innov11	cluster_4	DN	7252	4266.643	4232	4232	184.146	0.5186	0.9474	0.001	0.00010435	17866	264509	50.895	9259	129043	24.83	2388	7252	1.937	5.9179	5.7966	31.9844	31.9844
DP	TCF3_innov7	cluster_3	DN	13388	25480.636	25377	26273	268.4329	0.5185	0.9476	0.001	0.00010435	12562	17654	61.995	3148	42486	14.42	874	13388	4.7446	7.7164	7.7164	27.737	28.855
DP	SOX5_3	cluster_1	SP8	1835	35.76101	3383	3765	111.3818	0.5183	0.9481	0.001	0.00011429	2038	306											

SP4	PND02_2	cluster_3	DN	13293	26145.03	25709	25669	267.1809	0.5085	0.9758	0.01	0.0010435	11664	126378	51,858	4632	50861	20,903	1198	13293	5,4833	10,5421	10,5351	25,8636	26,1199	
DN	TCFL1_1	cluster_3	DN	37378	14356.956	31660	31647	116.2414	0.5084	0.01	0.0010909	20065	143770	74,719	5640	51406	19,857	17847	13293	13781	5483	12,6887	12,6887	26,5048	26,5048	
DN	MF2L1_MAG1_1	cluster_4	SP4	14023	26366.127	27881	28750	262.3905	0.5084	0.9761	0.01	0.0010435	11526	242026	74.83	1843	34608	11,202	648	14023	5,1239	5,6221	5,511	15,1601	16,8133	
DN	IDA_1	cluster_4	DN	34532	67939.016	67888	68601	386.7935	0.5081	0.9767	0.01	0.0010435	20326	273111	46,788	16281	161225	25,015	3811	34532	43,938	43,938	12,6231	23,0777	23,625	
DN	TCFL1_1	cluster_3	DN	16754	26057.794	16754	16754	90.6401	0.9777	0.0001	0.0001	0.0001	5040	10000	0.9777	0.0001	0.0001	0.0001	16754	16754	26057.794	26057.794	12,6992	12,6992	26,5048	
DN	GAF_Aknow16	cluster_3	DN	11292	22037.682	21581	22471	261.1728	0.5079	0.9774	0.01	0.0010435	7957	135675	61.511	2214	36416	16,511	669	11292	5,0741	5,0741	8,5291	19,7651	20,3737	
SP8	MFM_1know16	cluster_3	DN	8293	16333.239	15942	16764	248.6562	0.5077	0.9779	0.01	0.0010435	4509	95037	55,067	1533	30496	17,67	398	8293	4,8046	8,8268	8,8268	8,725	25,862	
DN	SPK_6	cluster_3	DN	6796	704	704	90.9441	0.9778	0.0001	0.0001	0.0001	625	10000	0.9778	0.0001	0.0001	0.0001	6796	6796	704	25,862	25,862	40.8	40.8	26,5048	
DN	SP1_1	cluster_1	SP8	48099	79729.11	79868	80539	469.8344	0.5076	0.9783	0.01	0.01	81273	1469721	70.851	2081	81273	11,6187	5,042	48099	4,552	2,843	27,935	33,889	34,808	
SP8	SOX6_6	cluster_3	DN	4065	9645.621	9381	9944	177.2246	0.5075	0.9784	0.01	0.0010909	4180	63611	57,612	1215	17231	15,406	332	4065	1,9343	7,8487	7,8487	6,952	23,221	
DN	TCFL1_1	cluster_3	DN	33328	14653.24	14645	14645	79.1	128.671	0.5073	0.9792	0.01	0.0010435	20326	273111	46,788	16281	161225	25,015	3811	34532	43,938	43,938	12,6231	23,0777	
DN	KU2_2	cluster_4	DN	4900	19762.939	19497	20640	166.7244	0.5072	0.9794	0.01	0.0010435	3760	129386	74.304	3101	39160	11,02	244	4900	5,5028	5,5028	5,4031	14,8364	16,4041	
DN	TCFL1_2	cluster_1	SP8	21877	13154.485	42515	43734	351.9315	0.5071	0.9801	0.01	0.01	38288	549111	63,594	5003	60931	7,992	1545	21877	20,527	4,0142	3,8226	20,8815	31,6906	
SP4	TKX_1	cluster_3	DN	9607	10563.335	10563	10563	105.6333	0.5071	0.9801	0.01	0.0010435	9607	10563	105.6333	0.5071	0.9801	0.01	0.0010435	9607	10563	105.6333	105.6333	105.6333	105.6333	26,5048
SP8	FTV_1	cluster_3	DN	17419	34363.501	33863	34899	304.0251	0.5069	0.9802	0.01	0.01	25471	229674	51.731	2205	36867	15,056	1934	17419	14,0324	7,5929	7,5929	15,842	25,7592	
SP8	IRV_1	cluster_3	DN	6455	12097.677	12476	12983	147.3282	0.5068	0.9804	0.01	0.0010435	13610	123083	63,171	2201	27081	19,610	306	6455	5,2282	5,2282	5,2282	12,8149	13,7876	
SP8	MFM_1know10	cluster_3	DN	7818	15426.612	15904	16287	394.9844	0.5068	0.9805	0.01	0.0010909	8275	91208	55,774	2609	28004	17,143	713	7818	4,7808	8,5716	8,5716	27,3285	27,3285	
DN	TKX2_5	cluster_3	DN	16410	32383.015	31835	32982	322.5401	0.5068	0.9806	0.01	0.0010909	13251	203127	60.183	4760	55218	16,36	1085	16410	4,3867	8,1881	8,1881	27,8654	28,5136	
DN	SOX7_3	cluster_4	SP4	4804	9485.169	9295	9703	138.2562	0.5066	0.9813	0.01	0.0010909	4157	66552	73,226	905	13558	14,918	306	4804	5,2657	7,0784	7,0784	38,1212	39,7186	
DN	TCFL1_1	cluster_3	SP8	4663	9247.686	9882	9796	195.3764	0.5065	0.9815	0.01	0.001	8735	143000	60,673	1049	14946	6,548	287	4663	1,8176	3,2656	3,2656	28,3887	28,3887	
DN	IDA_1	cluster_3	DN	37372	66588.843	65949	67947	413.8906	0.5063	0.9818	0.01	0.0010435	29633	268120	45,899	16281	146125	25,015	3729	37372	57,779	12,5884	12,5884	22,904	23,098	
DN	TKX_2	cluster_3	DN	11180	22093.015	21608	22574	294.8691	0.5061	0.9826	0.01	0.0010909	6901	131790	58,982	2000	38122	17,065	589	11180	10,0047	8,5103	8,5103	28,4541	29,3269	
SP4	FRK1_1know1	cluster_3	DN	6486	12823.899	12520	13118	167.4602	0.5058	0.9833	0.01	0.0010435	7076	78291	58,439	2887	22368	16,533	594	6486	4,8229	6,8246	6,8246	28,4619	28,4619	
DN	BATF_1know1	cluster_4	SP4	2560	5965.416	4834	5275	133.2541	0.5055	0.9843	0.01	0.0010435	3507	45701	76.3	9862	52,784	11,383	196	2560	5,5888	5,5888	5,6016	25,6881	26,4408	
DN	MVB2_2	cluster_4	SP4	1053	2084.345	1941	2220	81.8719	0.5054	0.9844	0.01	0.0010435	1363	21943	61,958	254	3426	9,6736	75	1053	2,9732	4,7988	4,7988	28,7276	30,7356	
DN	TCFL1_2	cluster_3	DN	4125	8001.739	8131	8479	202.1352	0.5054	0.9846	0.01	0.0010435	5502	51147	73,081	1193	11573	15,504	426	4125	5,6201	7,7426	7,7426	23,7069	23,7069	
SP8	MFM_1know1	cluster_3	DN	13489	26708.103	26221	27254	314.2934	0.5051	0.9854	0.01	0.0010435	11053	166406	54,325	3183	49795	16,236	3482	13489	4,6036	8,1823	8,1823	27,1217	27,1217	
SP4	SP1_1know1	cluster_3	DN	21492	42368.116	42213	43010	254.2879	0.5041	0.9883	0.01	0.01	38052	267768	57,339	2000	246338	15,995	3062	21492	4,6022	8,0206	8,0206	26,4428	26,4428	
DN	TKX1_2	cluster_3	DN	6741	13374.58	13160	13547	116.2414	0.5084	0.01	0.0010909	20065	143770	74,719	5640	51406	19,857	17847	6741	13374.58	13160	13160	13,160	13,160	26,5048	
DN	MFM_1know10	cluster_3	DN	8249	16310.059	15991	16643	201.4094	0.5039	0.9887	0.01	0.0010909	8791	96221	59,023	8069	28034	17,143	1429	8249	5,0321	6,8246	6,8246	25,3526	25,3526	
DN	FRK0_6	cluster_4	SP4	15209	30749.007	30219	30967	209.2606	0.5039	0.9889	0.01	0.0010435	28191	373838	76,349	3237	40909	18,549	1189	15209	13,417	41,128	41,128	26,767	27,6665	
DN	TCFL1_2	cluster_3	DN	16423	7056.75	7064	7064	70.56	0.9772	0.01	0.0010435	16423	7056.75	70.56	0.9772	0.01	0.0010435	16423	7056.75	7064	7056.75	7064	7064	70.56	70.56	
DN	TKX1_1	cluster_3	DN	12840	26044.026	25809	26186	302.8776	0.5034	0.9903	0.01	0.0010909	8543	103890	56,977	4005	47743	16,306	3070	12840	6,7801	8,1101	8,1101	26,9866	27,4918	
SP8	PND01_2	cluster_3	DN	10663	21991.628	21211	21982	379.5755	0.5031	0.991	0.01	0.0010435	9314	104420	49,224	2407	43989	20,823	982	10663	5,1422	10,4013	10,4013	24,4461	24,4461	
DN	KU2_1	cluster_3	DN	3984	10333.222	10443	7994	454.021	0.5031	0.9912	0.01	0.0010435	7994	10333.222	10443	7994	454.021	0.5031	0.9912	3984	10333.222	10443	10443	10,4446	10,4446	
SP8	POUF2_1know10	cluster_3	DN	3436	6843.117	6650	7107	108.1968	0.5028	0.9919	0.01	0.0010435	4421	43999	59,761	1333	11620	15,964	384	3436	4,7206	7,9652	7,9652	7,899	26,5027	
SP4	SP1_1know4	cluster_3	DN	16996	37783.73	33326	34322	300.2146	0.5027	0.9921	0.01	0.0010435	15528	202316	62.03	4840	55279	16,912	1311	16996	5,2028	8,4428	8,4428	30,0688	30,0688	
DN	TKX1_2	cluster_3	DN	14023	12823.899	12520	13118	167.4602	0.5058	0.9833	0.01	0.0010435	7076	78291	58,439	2887	22368	16,533	594	14023	4,8229	6,8246	6,8246	28,4619	28,4619	
DN	SOX1_2	cluster_4	SP4	7318	7441.256	7246	7618	111.2185	0.5023	0.9935	0.01	0.0010909	3740	52487	72,528	809	10560	14,865	245	7318	5,2172	7,3122	7,3122	19,926	20,086	
DN	SPK_2	cluster_3	DN	18237	36329.142	35813	36827	294.9993	0.502	0.9942	0.01	0.0010435	17488	235108	60,689	8189	10463	17,329	4406	18237	6,1314	12,014	12,014	29,4574	30,081	
DN	TKX1_2	cluster_3	DN	4483	8656.68	8622	8833	122.5379	0.5019	0.9943	0.01	0.0010435	4483	8656.68	8622	8833	122.5379	0.5019	0.9943	4483	8656.68	8622	8622	8622	8622	
DN	SP2_1	cluster_4	SP4	8057	16662.508	16713	17212	147.2267	0.5015	0.9955	0.01	0.0010435	18565	186152	75,582	2339	22816	23,938	4583	8057	4,5893	6,5893	6,5893	27,252	27,252	
DN	KU2_1	cluster_4	SP4	5246	10473.871	10293	10650	150.2792	0.5009	0.9974	0.01	0.0010435	11933	143226	82,189	2159	24937	16,512	447	5246	3,044	3,7469	3,7469	36,7684	36,7684	
DN	SOX6_6	cluster_3	DN	4979	8207.568	8207	8207	82.0758	0.5009	0.9974	0.01	0.0010435	4979	8207.568	82.0758	0.5009	0.9974	0.01	0.0010435	4979	8207.568	8207	8207	8207	8207	8207
DN	SMAD_2	cluster_3	DN	18611	36703.35	36272	37185	276.8795	0.5003	0.9992	0.01	0.0010435	21809	231066	56,683	6673	16769	18,558	1785	18611	4,6315	8,3176	8,3176	29,0414	29,0414	
SP4	SPB_2	cluster_3	DN	20001	40013.283	39460	40527	317.5528	0.5001	0.9996	0.01</															

DP	EGRI_Unknown2	cluster_1	SP8	28342	58106.143	57476	58879	436.6923	0.4878	-1.0357	0.001	0.001	50591	8338460	66.56	5616	29934	7.1366	1729	2585	3.4448	3.4005	30.787	31.752
DP	PATZ1_1	cluster_1	DN	28024	57607.21	59693	11829	297.7653	0.4831	-1.0497	0.001	0.0009	4602	6152	61.257	3833	15257	5.6454	3003	2843	2.2034	2.3442	27.668	28.242
SP4	EEK_1	cluster_1	DN	3215	6593.781	6445	6736	84.7257	0.4877	-1.0381	0.001	0.001	47090	84669	76.156	1007	8678	7.6423	1.8253	4.7971	1.2503	1.3971	16.6454	17.0477
SP4	REEL_1	cluster_1	DN	60293	131661.981	12675	124683	618.4234	0.4876	-1.0362	0.001	0.001	10895	813464	64.416	13009	20134	15.979	3687	6203	2.9054	2.7421	26.349	29.975
SP4	TCF_1	cluster_1	DN	2071	48951.69	49823	55063	255.0463	0.4875	-1.0366	0.001	0.0009	15869	21868	65.086	1980	21587	10.868	1.5868	1.5868	1.5868	1.5868	18.676	19.1568
SP4	MGA_3	cluster_1	DN	6611	14666.962	13228	13918	202.41364	0.4874	-1.0389	0.001	0.000495	1704	86900	61.334	1383	22456	4.7607	15.91	16.611	4.6607	4.6607	28.279	28.279
DN	CTC_Unknown2	cluster_1	DP	11047	22677.607	22092	23274	371.0839	0.4872	-1.0375	0.001	0.0010435	51849	287162	34.367	4231	66340	7.9395	11047	13221	3.8546	3.847	16.2609	16.6521
SP8	FOXO_2	cluster_1	DN	4270	10703.448	10374	10951	185.7083	0.4872	-1.0377	0.001	0.0010435	15708	85066	61.334	1383	22456	4.7607	15.91	16.611	4.6607	4.6607	28.279	28.279
SP8	POU2F3_1	cluster_1	DN	4273	8781.597	8478	8067	175.5454	0.4866	-1.0391	0.001	0.0010435	3586	54118	58.145	1089	15055	16.659	28.873	4.48	4.48	4.48	27.5589	27.5589
SP8	LMO2_1	cluster_1	DN	46600	95766.644	94965	96651	502.5562	0.4866	-1.0392	0.001	0.0010435	3586	54118	58.145	1089	15055	16.659	28.873	4.48	4.48	4.48	27.5589	27.5589
SP8	FOXO_4	cluster_1	DN	4270	10703.448	10374	10951	185.7083	0.4872	-1.0377	0.001	0.0010435	15708	85066	61.334	1383	22456	4.7607	15.91	16.611	4.6607	4.6607	28.279	28.279
SP8	TBX1_10	cluster_1	DN	5381	11068.41	10663	11474	238.932	0.4862	-1.0404	0.001	0.0010435	3619	68942	53.926	1156	13101	6.1016	10.49	7.9866	7.9866	7.9866	25	25
SP4	HBP1_1	cluster_1	DN	4900	10182.675	9866	10485	176.4234	0.4862	-1.0405	0.001	0.0010435	4429	82533	63.399	1156	11681	15.445	16.881	21.331	4.591	4.209	29.003	29.616
DP	FOXO_4	cluster_1	DN	4976	11836.696	13520	14184	280.5807	0.4861	-1.0408	0.001	0.0010435	5179	8933	63.399	1156	11681	15.445	16.881	21.331	4.591	4.209	29.003	29.616
SP8	GME3_5	cluster_1	DN	8556	18230.649	17796	18679	272.9374	0.4858	-1.0415	0.001	0.0010435	5748	109382	56.344	1394	22801	16.983	468	8556	14.663	15.462	26.087	26.999
DP	GME3_3	cluster_1	DN	1022	3093.046	2959	3236	82.5016	0.4858	-1.0416	0.001	0.0010435	2081	29642	70.749	392	4464	10.72	106	1056	5.0981	5.0981	32.9193	33.647
SP4	FOXO_4	cluster_1	DN	1778	3664.18	3512	3807	93.5458	0.4858	-1.0418	0.001	0.0010909	1903	24809	59.374	521	8174	15.274	138	1778	4.2512	4.2512	37.1668	37.8596
SP4	TBX1_4	cluster_1	DN	13272	27864.708	26882	27897	319.0572	0.485	-1.044	0.001	0.0010909	8929	170554	58.182	2605	47743	18.306	702	13272	7.362	7.362	26.9482	27.7888
DN	POU2F3_1	cluster_1	SP4	4666	9622.704	9382	9896	145.577	0.4849	-1.0441	0.001	0.0010435	4905	69536	74.624	940	13659	14.471	34	4666	5.0132	5.0132	6.1779	33.043
SP4	TBX1_6	cluster_1	DN	22037	24839.996	24554	25367	298.841	0.4846	-1.0461	0.001	0.0010909	8330	150313	59.905	2481	42913	16.964	671	22037	4.7299	4.7299	27.0455	28.047
SP8	TBX1_2	cluster_1	DN	8877	18319.444	18002	18609	176.5366	0.4846	-1.0461	0.001	0.0010909	14666	104782	54.512	4913	33885	17.432	1274	8877	4.6199	4.6199	25.912	26.1974
SP8	KCF2_3	cluster_1	DN	4453	9192.641	8953	9423	134.902	0.4845	-1.0455	0.001	0.0010909	5333	55334	62.869	1594	15124	17.122	54	4453	5.0412	5.0412	8.0185	28.418
DP	TBX1_2	cluster_1	DN	21260	23511.094	22920	23544	233.1004	0.4843	-1.046	0.001	0.0010909	29511	33471	65.296	3322	35618	7.0556	1004	21260	2.2299	3.4021	3.3635	33.0644
SP8	SPDEF_4	cluster_1	DN	7477	14548.683	15087	15856	223.0845	0.4837	-1.0478	0.001	0.0010435	7014	105694	58.272	1919	27215	15.096	507	7477	4.1474	4.1474	27.4738	27.4738
SP4	CUX1_8	cluster_1	DN	620	1282.97	1189	1380	58.3841	0.4837	-1.0479	0.001	0.0011429	545	8762	66.969	143	2072	15.6	41	620	4.688	4.688	7.5229	26.8713
SP4	MEF2_1	cluster_1	DN	28149	58209.196	57644	58772	295.3553	0.4836	-1.0481	0.001	0.0011429	28239	255419	48.619	1934	32055	22.955	3225	28149	11.6051	11.6051	11.0207	23.29
SP8	FOXO_6	cluster_1	DN	2447	5861.724	8979	9256	120.7359	0.4835	-1.0483	0.001	0.0010909	3230	32988	57.537	738	9074	15.861	191	2447	4.268	4.268	25.8808	26.9079
SP4	SOX3_3	cluster_1	DN	4286	8972.528	8853	9122	169.7299	0.4831	-1.0495	0.001	0.0010909	3172	57193	63.928	976	14708	16.179	274	4286	4.7158	4.7158	7.4939	28.0738
SP4	CTCF_Unknown17	cluster_1	DN	5545	11479.154	11448	11829	197.7653	0.4831	-1.0497	0.001	0.0010909	4602	6152	61.257	3833	15257	5.6454	3003	2843	2.2034	2.3442	27.668	28.242
SP8	TBX1_1	cluster_1	DN	11001	23401.489	22958	23891	280.3686	0.4829	-1.0501	0.001	0.0010435	5836	145462	64.663	2405	39675	16.268	667	11001	4.6317	4.6317	7.769	27.7339
SP4	KCF2_3	cluster_1	DN	4671	9674.112	9471	9901	134.1567	0.4829	-1.0502	0.001	0.0010435	8525	88444	66.163	1594	15124	17.122	17.122	17.122	17.122	17.122	29.862	30.8847
SP8	POU2F2_Unknown5	cluster_1	DN	3805	8978.149	7727	8202	144.9716	0.4828	-1.0511	0.001	0.0010435	3805	8978	66.163	1594	15124	17.122	17.122	17.122	17.122	17.122	29.862	30.8847
SP8	SMAD_1	cluster_1	DN	9684	20069.73	19797	20370	183.3584	0.4825	-1.0513	0.001	0.0010435	15001	126448	64.942	34936	36106	49.949	1215	9684	7.6084	7.6084	27.325	27.7193
DP	MVCN_2	cluster_1	SP4	3878	8040.955	7837	8231	114.9822	0.4821	-1.0519	0.001	0.0010435	17813	158428	65.545	4442	54245	15.409	403	3878	1.6074	2.4099	30.6007	31.2088
SP8	FOXO_3	cluster_1	DN	2812	5941.4	5941.4	6149	122.023	0.4821	-1.0519	0.001	0.0010909	2918	4869	66.929	139	2812	15.6	813	2812	4.5148	4.5148	11.5393	11.5393
DP	FOXO_2	cluster_1	DN	3870	6374.552	63097	64467	397.6001	0.482	-1.0529	0.001	0.0010435	40781	699641	71.099	6802	91970	9.9486	2069	3870	3.1226	4.5193	4.392	32.318
SP8	SOX1_4	cluster_1	DN	2846	5807.562	5673	6134	140.4049	0.4818	-1.0534	0.001	0.0010909	26581	37246	58.282	2786	34043	16.429	204	2846	4.4945	4.4945	7.6411	25.9542
SP4	FOXO_3	cluster_1	DN	2958	6169.113	5951	6190	132.4049	0.4815	-1.054	0.001	0.0010909	31990	318408	65.848	3678	45159	12.615	8719	2958	3.8159	3.8159	28.7319	29.862
SP8	FOXO_3	cluster_1	DN	1822	4118.076	3956	4305	111.6025	0.4814	-1.0546	0.001	0.0010909	2096	27285	58.087	592	7294	15.528	154	1822	7.4374	7.4374	26.163	27.173
DN	KCF2_1	cluster_1	SP4	4334	8803.841	8633	8979	107.9919	0.481	-1.0559	0.001	0.0010435	8816	1060435	66.163	1594	15124	17.122	17.122	17.122	17.122	17.122	29.862	30.8847
SP4	FOXO_3	cluster_1	DN	21517	48997.19	47907	49264	659.633	0.4809	-1.0569	0.001	0.0010909	24537	287114	65.059	9722	12628	14.604	4529	21517	10.868	10.868	28.009	28.009
SP4	SP2_1	cluster_1	DN	11004	23069.262	22768	23390	193.4904	0.4809	-1.0561	0.001	0.0010435	14241	142725	57.95	4088	45044	15.504	1114	11004	4.5044	4.5044	27.705	27.705
DN	ETS_Unknown17	cluster_1	SP4	10103	21010.546	20629	21419	231.9601	0.4809	-1.0563	0.001	0.0010435	15240	203800	73.574	1774	29054	8.2099	596	10103	2.8548	3.8801	33.5954	34.7752
DP	FOXO_3	cluster_1	DN	2858	6169.113	5951	6190	132.4049	0.4815	-1.054	0.001	0.0010909	31990	318408	65.848	3678	45159	12.615	8719	2958	3.8159	3.8159	28.7319	29.862
DN	TBX1_4	cluster_1	SP4	11049	23066.947	22575	23397	251.8195	0.4803	-1.0563	0.001	0.0010909	17107	211988	72.371	1814	32620	11.141	583	11049	3.7798	3.7798	13.1889	13.1889
DN	MAMP_1	cluster_1	SP4	8728	18175.088	17858	18504	202.0089	0.4802	-1.0582	0.001	0.0010435	12562	176219	70.456	1926	34043	10.457	815	8728	4.9243	4.9243	23.4844	23.4844
SP4	FOXO_1	cluster_1	DN	2744	5869.714	5744	6028	110.584	0.4801	-1.0584	0.001	0.0010909	11634	15293	62.345	11634	20588	12.615	11634	20588	12.615	12.615	12.615	23.4844
SP4	FOXO_4	cluster_1	DN	2283	4759.202	4585	4906	97.1367	0.4798	-1.0595	0.001	0.0010909	2546	33138	61.337	745	7979	14.814	207	2283	4.7005	4.7005	19.127	

SP4	TKB1_2	cluster_3	DN	7086	15095.43	14694	15508	247.0269	0.4694	-1.091	0.001	0.0004935	4910	89984	57.636	1562	36857	17.2	395	7086	4.532	7.9158	7.8826	25.2881	26.4137	
SP4	HFH_known10	cluster_3	DN	5209	10746.13	10448	11045	170.7215	0.4687	-1.094	0.001	0.0004935	4516	81829	50.817	1629	36013	16.079	5033	5209	2.4975	7.8629	7.8187	25.7993	26.4137	
DN	MWCV_2	cluster_4	SP4	4545	9701.633	9538	8757	101.4533	0.4685	-1.0938	0.001	0.001	21157	191106	79.065	1415	10246	5.1409	505	4545	1.8004	2.3869	2.3783	35.689	36.5765	
DP	SP1_1	cluster_4	SP4	3377	7186.382	71236	72750	458.9261	0.4685	-1.0938	0.001	0.001	81573	1469771	70.891	6296	10263	5.0772	1921	3377	1.6288	2.3021	2.2948	30.5114	32.0413	
DP	HHR-ANN-HF1A_1	cluster_4	SP4	40285	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	100447.648	40285	100447.648	100447.648	100447.648	100447.648	
SP8	FOKW1_5	cluster_3	DN	48120	47546.978	47038	48129	336.9661	0.4678	-1.0959	0.001	0.0004935	25171	279379	58.774	3805	62745	17.243	3021	48120	4.6361	8.0131	7.9619	26.1591	27.0467	
SP8	RRBL_2	cluster_3	DN	26244	18426.049	18077	186105	916.5664	0.4676	-1.0965	0.001	0.001	51515	1237979	63.21	14033	30253	15.454	3721	26244	4.3636	7.8675	7.8254	26.5729	28.0579	
SP8	SP4_1	cluster_3	DN	4567	9667.863	9667	4567	115.5455	0.4676	-1.0965	0.001	0.0004935	9736	1712	1066	712	2408	6.027	218	4567	1.6078	2.188	2.1808	30.2478	31.7312	
SP8	SP1_2	cluster_3	DN	7788	16555.747	16388	16888	153.6493	0.4676	-1.0966	0.001	0.0004935	15443	86658	52.897	5324	31674	16.882	1300	7788	4.1756	7.988	7.936	26.4117	28.5488	
DN	GMER1_3	cluster_4	SP4	887	1898.363	1815	1887	52.2111	0.4675	-1.0969	0.001	0.0004935	2600	33394	80.191	180	2424	5.8209	64	887	2.13	2.159	2.1519	33.5556	36.5924	
SP4	HFH_known13	cluster_3	DN	8675	18556.602	18261	18916	205.2846	0.4673	-1.0969	0.001	0.0004935	16133	91876	18.876	3053	5614	10.973	793	8675	2.8447	5.937	5.8744	26.3467	28.3644	
SP4	SOX1_4	cluster_3	DN	2912	6235.21	6025	6472	130.0308	0.4671	-1.0982	0.001	0.0010909	2802	39514	62.402	786	10473	16.429	2912	2912	1.5497	2.7477	2.7465	30.8448	33.9919	
DP	SP1_known2	cluster_4	SP4	35105	71382.75	74998	79808	396.9806	0.4669	-1.0987	0.001	0.001	113119	1040470	70.792	8420	10934	5.4428	2606	35105	2.3181	4.508	4.4759	27.9523	29.1252	
DP	SP12_1	cluster_4	SP4	2531	5410.238	53660	54097	330.8817	0.4669	-1.0988	0.001	0.0004935	76014	140887	79.848	60020	7198	10.8219	6.8021	2531	2.122	4.164	4.1554	30.2184	32.5868	
DP	MF12_2	cluster_4	SP4	16214	34738.327	34206	35307	332.7865	0.4668	-1.0992	0.001	0.001	38298	549311	63.594	34074	55774	6.437	1158	16214	1.8771	3.0237	3.0117	28.4521	29.0709	
DN	CTCF_known2	cluster_4	SP4	3640	12107.657	11661	12560	261.1001	0.4667	-1.0995	0.001	0.0004935	17649	287162	34.367	2287	2577	4.2602	333	3640	0.6719	1.9777	1.9777	31.9675	31.9721	
SP4	FOKW1_5	cluster_3	DN	21978	47099.138	46582	47234	325.5499	0.4666	-1.0996	0.001	0.0004935	26037	276688	58.01	7636	82243	17.243	3001	21978	4.6778	7.9922	7.9432	26.2028	28.7232	
DN	SP4_2	cluster_3	DN	2953	62914.267	62351	63538	367.3806	0.4666	-1.0999	0.001	0.001	66957	1120770	78.67	1244	82431	25.688	1799	2953	2.004	3.2668	3.2668	34.3059	35.6902	
SP8	SOX1_5	cluster_3	DN	2318	4969.923	4771	5187	119.9308	0.4665	-1.1	0.001	0.001429	2277	31990	58.026	680	8911	16.164	170	2318	2.318	2.7466	2.7466	30.25	30.2128	
SP4	HFH_known14	cluster_3	DN	29657	42144.678	41528	42784	370.775	0.4664	-1.1003	0.001	0.001	12966	293131	65.532	3403	4923	10.615	967	29657	4.4615	6.504	6.5059	28.8161	29.9126	
DP	KLF4_1	cluster_4	SP4	2138	47039.234	46558	47548	297.5064	0.4664	-1.1004	0.001	0.001	76004	740702	63.769	8000	74996	16.466	2275	2138	1.8938	1.8937	1.8948	28.4702	29.3232	
SP8	NFATC1_3	cluster_3	DN	341	7380.347	7311	7615	151.7789	0.4663	-1.1007	0.001	0.000909	3018	39257	57.876	1065	1076	13.971	267	341	5.073	5.8669	5.8669	25.0704	26.1256	
DN	HFH_known11	cluster_3	DN	2385	5123.214	5023	5232	55.7322	0.4662	-1.1027	0.001	0.001	22592	90566	60.589	915	9438	5.7088	332	2385	2.1223	2.6566	2.6566	33.0457	34.2333	
SP8	SOX4_1	cluster_3	DN	12618	27093.66	26657	27575	281.8792	0.4662	-1.1024	0.001	0.0004935	19798	191082	60.682	3071	46460	14.754	397	12618	1.6763	2.9625	2.9625	25.5525	27.1588	
SP4	MVC_known3	cluster_3	DN	8653	18583.084	18270	18923	196.295	0.4657	-1.1026	0.001	0.0004935	8038	99518	55.876	3113	33619	18.878	789	8653	4.8933	8.7208	8.6949	25.3453	26.3384	
DN	HFH-ANN-1	cluster_3	DN	2285	4789.317	4739	4923	104.1862	0.4657	-1.1028	0.001	0.0004935	21602	38565	63.46	1009	11597	14.634	332	2285	1.6763	2.9625	2.9625	25.5525	27.1588	
SP4	SOX1_5_2	cluster_3	DN	3245	6976.294	6749	7219	141.2791	0.4652	-1.104	0.001	0.000909	3199	44866	62.621	269	3149	15.119	3245	3245	4.5291	7.2835	7.2835	28.8124	29.8977	
DN	TKB2_2	cluster_3	DN	6992	15032.171	14760	15318	175.0293	0.4652	-1.1042	0.001	0.000909	9302	93316	58.465	869	10239	16.328	701	6992	4.3992	7.536	7.536	26.3633	28.0822	
DN	ATK1_2	cluster_3	DN	2215	7614.699	7533	7708	52.7488	0.4649	-1.1051	0.001	0.0004935	416	3817	61.36	521	6166	8.5056	124	2215	1.74	2.215	2.215	33.7073	35.2907	
DN	MF12_1	cluster_4	SP4	4180	8992.99	8868	9115	78.6328	0.4649	-1.1051	0.001	0.001	24370	147420	74.766	2058	22568	12.154	688	4180	2.1899	2.8408	2.8354	34.392	35.1302	
SP8	ARID1A_1	cluster_4	SP4	862	1855.611	1749	1957	61.4875	0.4648	-1.1053	0.001	0.002632	834	11458	67.591	232	2962	7.272	862	862	5.0009	7.9137	7.9137	28.4643	29.7221	
DN	TKB2_2	cluster_3	DN	712	1635.663	16220	17074	255.4463	0.4647	-1.1056	0.001	0.0004935	2116	26907	11.06	671	7717	15.82	7717	712	1.464	2.1754	2.1754	35.5882	37.1256	
SP8	POU2F2_known15	cluster_3	DN	2598	5594.517	5419	5775	105.6544	0.4644	-1.1064	0.001	0.0004935	3075	33949	59.103	905	9687	18.865	207	2598	4.52	7.7073	7.6527	28.1874	29.2602	
DP	SOX1_8	cluster_3	DN	572	1232.893	1242	1324	56.4562	0.4644	-1.1066	0.001	0.001429	344	8813	66.353	143	2072	15.6	39	572	1.4366	2.4906	2.4906	27.7277	27.6026	
DN	SOX1_2	cluster_3	DN	4028	4799.808	48021	4896	155.0548	0.4643	-1.1069	0.001	0.0004935	4028	4799.808	48021	4896	155.0548	0.4643	-1.1069	0.001	0.0004935	4028	4799.808	48021	4896	155.0548
SP8	FKBP1_known1	cluster_3	DN	5794	12486.919	12198	12769	183.9446	0.4644	-1.1077	0.001	0.0004935	6180	74662	56.96	2802	32868	16.633	529	5794	3.4008	6.7278	6.7278	25.3474	26.9031	
SP4	HFH_known11	cluster_3	DN	7753	16712.446	16385	17032	203.3442	0.4639	-1.108	0.001	0.001	6896	119381	67.85	1837	22304	14.363	543	7753	4.2024	6.6252	6.6252	29.8937	30.6394	
DN	HHR-ANN-HF1A_1	cluster_3	DN	5284	12899.137	12899	5284	12899.137	12899	5284	12899.137	12899	5284	12899.137	12899	5284	12899.137	12899	5284	12899.137	5284	12899.137	12899	5284	12899.137	
SP8	RRP1_1	cluster_3	DN	7561	16132.304	16068	16577	156.4234	0.4635	-1.1092	0.001	0.0004935	10611	16793	53.125	5927	13135	21.582	1900	7561	1.5283	3.0899	3.0899	24.111	25.0627	
DP	GMER1_1	cluster_3	SP8	1443	3114.475	2995	3280	95.2343	0.4635	-1.1094	0.001	0.0004935	2285	9246	67.496	293	4645	3.841	88	1443	1.0531	1.5493	1.5493	33.0541	33.0657	
DN	POU2F2_1	cluster_3	DN	4328	9602.711	9573	9957	166.1718	0.4635	-1.1099	0.001	0.001	4328	9602.711	9573	9957	166.1718	0.4635	-1.1099	0.001	0.001	4328	9602.711	9573	9957	166.1718
SP4	FOKW1_3	cluster_3	DN	22077	47727.474	47185	48280	347.2349	0.463	-1.1109	0.001	0.0004935	21804	285300	58.247	6537	83159	16.884	170	22077	5.7129	7.4779	7.4779	26.0121	26.572	
SP8	MWCV_2	cluster_3	DN	23975	5131.339	4933	5350	117.7698	0.4629	-1.111	0.001	0.0004935	2285	34653	64.34	1562	8129	15.094	156	23975	4.0999	6.8271	6.8271	27.758	29.2164	
DN	HHR-ANN-1	cluster_3	DN	4328	9602.711	9573	9957	166.1718	0.4635	-1.1099	0.001	0.001	4328	9602.711	9573	9957	166.1718	0.4635	-1.1099	0.001	0.001	4328	9602.711	9573	9957	166.1718
DP	HHR-ANN-HF1A_1	cluster_4	SP4	2185	4723.977	4604	4850	76.3606	0.4626	-1.112	0.001	0.0004935	13707	104672	71.635	821	9665	4.5839	288	2185	1.6982	2.9915	2.9915	32.6421	33.8275	
SP8	HRP1_1	cluster_3	DN	4105	9763.161	9259	9828	172.5888	0.4623	-1.113	0.001	0.0004935	4105	9763.161	9259	9828	172.5888									

SP4	FOUO2_known15	cluster_3	DN	2666	5921	221	5720	4200	109	1418	04501	-1.1569	0.00100435	3360	36005	62,683	905	9887	16,865	243	2666	7,454	7,405	26,858	27,524	
SP4	FBI_2	cluster_3	DN	212	4732	203	4854	4856	84	21	045	-1.1519	0.00100435	908	908	1,968	1,968	2,126	2,126	2,126	2,126	2,126	2,126	2,126	21,262	
SP4	FRG_4	cluster_3	DN	5082	11806	572	11025	11550	163	82	04495	-1.1535	0.00100435	7012	93169	164,923	3,942	5082	5,481	5,481	5,481	5,481	5,481	5,481	28,865	
SP4	FRB_2	cluster_3	DN	8385	18588	173	18332	18889	193	1807	04494	-1.1538	0.00100909	10752	10034	56,634	1846	33705	75,735	8082	8,356	8,356	8,356	8,356	24,492	
SP4	FRD_2	cluster_3	DN	2082	4662	4736	4636	4736	39	36	04495	-1.1548	0.00100435	3020	3020	3,711	3,711	4,021	4,021	4,021	4,021	4,021	4,021	4,021	7,096	
SP4	FRJ_2	cluster_3	DN	7379	16548	185	16375	16709	162	778	04495	-1.1548	0.00100435	14873	117795	62,42	3018	26629	44,783	810	4,066	6,582	6,542	6,542	27,104	
SP4	FDXW1_1	cluster_3	DN	2891	6447	462	6281	6620	105	2523	04485	-1.1569	0.00100909	4298	39915	56,233	4018	11672	16,444	363	2891	4,076	7,204	7,204	24,768	
SP4	FDXW2_2	cluster_3	DN	4592	10469	420	4592	4633	351	2005	04486	-1.1571	0.00100435	6467	44511	6,001	4462	10,511	10,511	10,511	10,511	10,511	10,511	10,511	24,815	
SP4	FRB_known11	cluster_3	DN	7808	18035	57	17684	18384	220	6527	04483	-1.1574	0.00100435	10119	145036	63,244	2446	28875	12,591	670	8208	13,325	16,619	16,619	37,397	
SP4	ELK_2	cluster_3	DN	2024	4917	935	4888	5158	142	279	04483	-1.1576	0.00114229	5170	5170	24,526	2266	20219	9,6161	205	2074	5,048	4,278	4,278	9,078	
SP4	FTW_2	cluster_3	DN	4728	10328	753	10302	10328	202	2412	04482	-1.1577	0.00114229	6920	6920	21,326	1577	1577	15,777	15,777	15,777	15,777	15,777	15,777	5,799	
DN	FRK_2	cluster_4	SP4	4839	10797	678	10588	10997	127	1301	04482	-1.1578	0.00100435	10592	214291	80,54	1053	13560	5,1218	364	4839	2,2761	2,2761	2,2761	34,579	
DN	FRJ_2	cluster_4	SP4	3642	8128	108	7873	8359	153	2001	04481	-1.158	0.00100909	3688	51655	58,162	1089	14396	16,21	264	3642	4,1008	4,1008	4,1008	24,424	
DN	FRK_2	cluster_4	SP4	222	4935	4999	4715	5154	130	4048	04472	-1.1588	0.00100435	3012	3012	4,619	4,619	5,003	5,003	5,003	5,003	5,003	5,003	5,003	14,313	
DP	FRK_2	cluster_4	SP4	1022	2305	338	2166	2443	84	9329	04479	-1.1589	0.00100435	2091	34443	62,139	297	3755	6,744	80	1022	1,8618	1,8618	1,8618	27,484	
SP4	FTV_2	cluster_3	DN	5223	11664	146	11311	12047	214	2954	04478	-1.159	0.00114229	5041	90088	24,501	5383	47824	12,919	579	5223	5,076	5,787	5,787	20,962	
SP4	ATX_2	cluster_3	DN	497	1111	393	1060	1185	153	2156	04477	-1.1594	0.00100909	1177	9639	70,922	228	1581	11,662	497	71	497	3,658	3,658	11,464	
SP4	SOX_1	cluster_3	DN	1430	3197	112	3065	3319	76	0279	04475	-1.1602	0.00100909	2386	21481	68,838	590	5114	15,204	236	1430	4,288	4,657	4,657	27,456	
SP4	SOX1_2	cluster_3	DN	2549	5698	666	5489	5892	117	2226	04474	-1.1604	0.00100909	3330	36787	57,469	982	10109	15,792	236	2549	3,991	6,9291	6,9291	24,789	
SP4	TRK1_1	cluster_3	DN	5233	11904	719	11321	12014	200	9974	04471	-1.1612	0.00100909	5853	72708	56,872	1156	21010	16,434	5233	5233	4,0932	7,3132	7,3132	24,389	
SP4	ARSD_1	cluster_3	DN	801	1793	595	1679	1903	68	6697	04466	-1.1623	0.00102632	103	11102	62,491	232	2962	6,701	60	801	1,4751	1,4751	1,4751	27,0425	
SP4	FOXW_2	cluster_3	DN	5126	11479	1132	11738	156	8537	04466	-1.163	0.00100435	6478	84929	66,37	1450	17939	14,019	396	5126	4,0058	6,113	6,113	20,736		
DN	KF7_1	cluster_4	SP4	3974	7698	705	7528	7694	446	6789	04465	-1.1634	0.00100435	6419	131200	74,211	6936	105944	5,946	232	3974	1,931	2,595	2,595	31,025	
SP4	CUX_1	cluster_3	DN	386	866	605	785	938	45	7444	04463	-1.1638	0.00102632	434	7992	75,035	87	1315	12,346	36	386	1,6241	1,6241	1,6241	27,907	
SP4	BATF_known1	cluster_3	DN	3600	8067	761	7806	8326	150	296	04463	-1.1639	0.00100435	3974	51803	59,832	1070	13651	15,767	278	3600	4,158	6,995	6,995	25,813	
SP4	FOUO2_known10	cluster_3	DN	3237	7126	471	7060	7425	218	4227	04463	-1.164	0.00100435	4003	46258	65,552	1333	11620	15,564	363	3237	4,4172	7,037	7,037	27,082	
SP4	FOXP1_1	cluster_3	DN	14763	31004	426	34373	33742	379	5294	0446	-1.165	0.00100435	10020	26998	66,218	5115	97864	11,824	1773	14763	3,8038	5,7444	5,7444	20,177	
SP4	FLI_2	cluster_3	DN	4788	10738	157	10463	11008	169	5651	04459	-1.1651	0.00100435	7004	91445	65,047	1315	16623	14,909	369	4788	3,4058	5,234	5,234	28,008	
SP4	ATX2_2	cluster_3	DN	2836	4192	602	3947	4297	59	6211	04459	-1.1653	0.00100435	4803	53941	62,348	616	7096	18,56	2836	2836	3,413	3,413	3,413	27,104	
SP4	ATX_known5	cluster_3	DN	10713	24029	718	23619	24520	264	1935	04458	-1.1654	0.00100435	10115	167390	58,274	2075	24829	14,657	6457	10713	3,645	6.4	6.4	49,919	
SP4	FRB_known10	cluster_3	DN	7343	16482	217	16161	16824	294	8824	04455	-1.1664	0.00100435	10445	126213	62,637	2373	26672	13,237	781	7343	3,2742	5,8497	5,8497	27,5307	
SP4	FRK1_2	cluster_3	DN	5492	12488	988	12199	12488	365	4212	04451	-1.1666	0.00100435	5492	5492	10,427	5492	5492	5,492	5492	5492	5,492	5,492	5,492	17,964	
SP4	SOX_9	cluster_3	DN	3607	6892	203	6646	7139	149	2096	04451	-1.1678	0.00100909	2995	47951	62,253	784	11527	30,676	307	3607	1,9521	6,5776	6,5776	26,6071	
DN	HSS_1	cluster_4	SP4	3704	8324	884	8143	8491	112	2469	0445	-1.1681	0.00100435	32165	134258	77,001	1020	10976	6,2951	307	3704	2,1844	2,7702	2,7702	33,1292	
SP4	FRK_2	cluster_3	DN	4818	10222	844	10044	10222	114	1384	0445	-1.1681	0.00100435	4818	11212	116,641	6,449	69848	21,56	391	4818	4,2139	4,2139	4,2139	23,646	
SP4	SOX1_2	cluster_3	DN	2309	7441	946	7177	7687	155	6484	04447	-1.1689	0.00100909	3221	45113	56,297	2001	13954	16,864	239	2309	3,7401	7,3349	7,3349	28,1414	
SP4	FOUO2_known11	cluster_3	DN	4199	4930	746	4900	4955	286	5488	04441	-1.1703	0.00100909	40402	249202	53,035	10300	93370	20,055	1047	4199	4,7079	8,8209	8,8209	27,3845	
SP4	TRK1_2	cluster_3	DN	3137	7156	714	7076	7436	133	2009	04441	-1.1711	0.00100909	3137	3137	3,208	3,208	3,382	3,382	3,382	3,382	3,382	3,382	3,382	13,564	
SP4	ELK_1	cluster_3	DN	2258	5087	403	4837	5333	148	7506	0444	-1.1714	0.00114229	5598	53444	24,833	2139	20674	9,703	2258	2258	4,277	4,202	4,202	10,9129	
SP4	FTV_1	cluster_3	DN	3709	8369	035	8207	8534	103	2617	04432	-1.1718	0.00100435	11830	105410	75,515	1238	11464	7,9952	412	3709	2,5867	3,5579	3,5579	33,9876	
SP4	FRK1_1	cluster_3	DN	4129	9117	739	7620	7946	75	9252	0443	-1.1746	0.00100435	4129	4129	4,129	4,129	4,129	4,129	4,129	4,129	4,129	4,129	4,129	6,449	
SP4	FRW1_1	cluster_3	DN	7084	15993	508	15579	16383	231	9192	0443	-1.1747	0.00100909	5066	74764	60,876	1524	17076	37,804	7084	4,1103	7,2446	7,2446	24,404		
SP4	SOX1_3	cluster_3	DN	8099	6988	144	6764	7220	140	107	04429	-1.1749	0.00100909	7972	41649	55,348	379	13064	17,361	224	8099	4,1103	7,337	7,337	22,8005	
SP4	FRK1_2	cluster_3	DN	5827	12864	133	12618	13054	112	1444	04428	-1.1779	0.00100909	5827	60289	67,679	60289	60289	60,289	60289	60289	60,289	60,289	60,289	60,289	60,289
SP4	RUN1_2	cluster_3	DN	5018	11355	842	11069	11679	182	3129	04419	-1.1781	0.00100435	4574	71425	63,314	1268	14638	16,508	325	5018	4,481	7,056	7,056	23,639	
SP4	TCF_1	cluster_3	DN	58751	132862	419	130125	134225	670	8421	04418	-1.1785	0.00114229	45062	639984	51,735	18480	23897	20,914	4138	58751	9,1849	13,949	13,949	22,482	
SP4	ATX2_2	cluster_3	DN	8026	18328	911	18074	18621	215	1001	04418	-1.1786	0.00100435	8026	8026	9,043	9,043	9,043	9,043	9,043	9,043	9,043	9,043	9,043	27,1467	
SP4	FRB_known14	cluster_3	DN	17703	40075	493	39306	40778	473	07624	04418	-1.1787	0.00100435	14574	17824	63,239	6013	67518	10,543	17703	4,0318	6,537	6,537	27,638		
SP4	FRB_known11	cluster_3	DN	8230	18586	388	18254	18907	198	8209	04417	-1.1787	0.00100435	10131	149870	65,352	2446	28875	12,591	678	8230					

SP8	MVC_known20	cluster_3	DN	9060	22021.804	21617	22390	237.0254	0.4114	-1.2813	0.001	0.001	8743	149393	57.101	2458	39039	15.485	558	9060	3.338	6.346	6.2937	22.7014	21.2076	
SP8	ATF2_1	cluster_3	DN	43	1607.968	1608	1165	36.4256	0.0411	-1.28	0.001	0.001	1189	1599	5.99	1.28	1189	11.89	65	43	1608	1.608	4.145	4.145	26.796	25.2411
SP4	POU2F2_known14	cluster_3	DN	1015	2471.711	2347	2601	79.1223	0.4109	-1.2832	0.001	0.0012632	922	14165	62.953	326	4330	19.244	171	1015	4.5029	7.7007	7.1855	24.8971	23.4411	
SP8	EF2_2	cluster_3	DN	2702	6602.701	6383	6888	149.345	0.4039	-1.2887	0.001	0.0010909	3179	54200	66.243	657	10343	51.274	163	2702	3.2029	5.2174	5.2174	24.8097	26.1239	
SP8	GME82_3	cluster_3	DN	1558	3661.98	3662	1558	42.7448	0.4089	-1.2902	0.001	0.0010435	2042	35684	42.962	2042	35684	42.962	60	1558	2.9462	5.008	5.008	24.627	24.627	
SP4	HP1_4	cluster_3	DN	3688	9026.648	8765	9297	161.426	0.4086	-1.2911	0.001	0.0010435	5307	67800	81.985	14760	14760	14.944	283	3688	5.435	9.485	9.485	24.502	24.502	
DP	EGR_3	cluster_4	SP4	9911	24259.636	23847	24639	241.702	0.4086	-1.2914	0.001	0.001	31417	463984	71.003	2480	34990	5.3445	684	9911	11.5167	21.372	21.372	27.4699	28.8624	
SP4	ATF2_2	cluster_3	DN	6545	15977.373	15978	6545	159.7737	0.4075	-1.2923	0.001	0.001	10999	128.027	12.925	6733	6733	6.577	163	6545	5.0317	8.577	8.577	24.7131	24.7131	
SP8	KLF12_2	cluster_3	DN	2729	6628.574	66102	67534	403.6046	0.4074	-1.2953	0.001	0.001	40686	883357	67.252	11679	11679	14.784	1936	2729	3.3524	4.7884	4.6684	24.6684	26.9699	
SP8	ATF6_1	cluster_3	DN	1447	3558.871	3444	3675	70.6032	0.4068	-1.2978	0.001	0.0010435	3930	27720	63.816	610	5616	11.023	207	1447	2.7203	5.2672	5.2672	26.5556	25.7657	
DP	MVC_1	cluster_3	DN	601	1687.645	1687	14027	11.778	0.4065	-1.2986	0.001	0.001	11178	165.7901	14.065	12986	12986	12.986	601	601	1.601	3.601	3.601	24.5259	24.5259	
SP4	HES1_1	cluster_3	DN	19196	47366.448	46883	47884	320.8445	0.4054	-1.3027	0.001	0.001	24877	349612	62.645	5551	76425	13.694	1363	19196	14.0592	25.2234	25.2234	24.5441	25.1174	
SP4	RUNX3_3	cluster_3	DN	26258	64791.92	64883	65555	442.385	0.4051	-1.303	0.001	0.001	23991	424439	62.225	5889	100815	15.493	1501	26258	4.0356	6.1865	6.1865	26.4057	26.4057	
SP4	RUNX3_2	cluster_3	DN	20880	51801.61	51805	52098	434.489	0.4051	-1.304	0.001	0.001	17450	28165	34.8023	6033	6033	6.033	1202	20880	11.274	16.8883	16.8883	24.124	24.124	
SP4	KLF12_1	cluster_3	DN	6736	16639.717	16404	16867	145.4007	0.4049	-1.3045	0.001	0.001	19702	115812	58.735	4821	29504	14.562	1125	6736	14.616	18.736	18.736	24.6138	24.6138	
SP8	GME82_2	cluster_3	DN	1191	4727.311	4541	4897	107.1061	0.4044	-1.3062	0.001	0.001	2734	36104	65.136	576	7389	11.331	148	1191	3.4477	5.4332	5.4332	25.6944	25.6944	
SP4	HES1_2	cluster_3	DN	878	2173.45	2058	2396	75.4603	0.4042	-1.3067	0.001	0.0014118	906	12891	61.767	261	3561	17.923	66	878	4.4116	6.9183	6.9183	23.4875	24.6145	
SP8	SP100_2	cluster_3	DN	626	1552.974	1461	1637	52.7165	0.4035	-1.3094	0.001	0.0013333	956	12440	57.99	520	1174	12.93	50	626	3.7233	5.2301	5.2301	27.6243	28.7948	
SP8	CLU2_2	cluster_3	DN	157	390.814	356	427	21.0693	0.4031	-1.3102	0.001	0.0013333	381	3429	70.686	69	591	12.183	18	157	1.3264	4.7244	4.7244	26.087	26.5651	
SP4	HFA1-ARNT_1	cluster_3	DN	3756	9346.261	9183	9534	201.9317	0.403	-1.3111	0.001	0.001	10657	75241	66.952	1969	14045	12.498	525	3756	3.9111	5.0052	5.0052	26.6633	26.6633	
SP4	SPDF_6	cluster_3	DN	6008	14908.138	14612	15209	175.8669	0.403	-1.3111	0.001	0.001	8360	117597	67.827	14037	14037	4.022	6208	6008	3.4712	5.1675	5.1675	26.101	26.873	
SP8	HP1_4	cluster_3	DN	3629	9010.511	8782	9265	147.2955	0.4028	-1.3118	0.001	0.0010435	5176	67397	61.616	1167	14760	11.494	279	3629	3.1377	5.3903	5.3903	24.5865	24.5865	
SP8	ARHGAP_2	cluster_2	DN	1317	3273.258	3095	3444	104.214	0.4025	-1.3128	0.001	0.0013333	1142	20101	69.524	1479	1462	17.37	85	1317	4.1883	6.5638	6.5638	25.5339	22.4274	
SP8	FU1_2	cluster_3	DN	4101	10205.501	9916	10409	170.6479	0.4019	-1.3151	0.001	0.001	16676	86936	61.84	1315	1315	16.824	316	4101	2.9711	4.7334	4.7334	24.0304	24.0304	
SP8	KLF12_1	cluster_3	DN	6866	17094.587	16850	17362	149.5867	0.4017	-1.3159	0.001	0.001	19874	119344	60.476	4821	28504	14.456	1148	6866	5.4822	5.7764	5.7764	23.8125	24.0878	
SP4	KLF12_2	cluster_3	DN	25734	64702.596	63707	65184	423.8266	0.3992	-1.3249	0.001	0.001	29326	562601	65.133	7345	100882	15.679	2374	25734	2.9792	4.5741	4.5741	24.8741	25.509	
SP8	EF1_known14	cluster_3	DN	2282	5723.799	5507	5910	124.9882	0.3988	-1.3263	0.001	0.001	2292	51042	66.197	582	9023	11.702	428	2282	2.956	4.3323	4.3323	23.7113	25.2909	
SP4	ATF1_known17	cluster_3	DN	1188	29598.393	29200	30261	314.9071	0.3986	-1.3269	0.001	0.001	12925	220777	62.412	2924	48134	13.601	696	1188	3.3445	5.3959	5.3959	23.803	24.5938	
SP8	MVC_1	cluster_3	DN	1565	14992.487	14742	15258	159.9344	0.3976	-1.3307	0.001	0.001	10412	115667	60.578	1200	23706	13.183	598	1565	2.893	4.597	4.597	24.628	25.2139	
SP8	ATF2_3	cluster_3	DN	1754	4413.095	4234	4611	117.8465	0.3971	-1.3323	0.001	0.001	2009	35210	66.193	432	6875	12.925	107	1754	3.2937	5.1716	5.1716	24.9759	24.4826	
SP4	POU2F2_known13	cluster_3	DN	3282	8297.876	7968	8591	187.2956	0.3958	-1.337	0.001	0.0010909	2768	57442	64.703	702	13501	15.121	328	3282	1.6991	5.8284	5.8284	24.3855	24.3855	
SP4	AT1_4	cluster_3	DN	10719	11680.21	10719	11104	163.9151	0.3956	-1.3371	0.001	0.001	12880	13266	13.266	1927	1927	19.27	1519	10719	11.328	16.472	16.472	24.6472	24.6472	
SP4	SP1_1	cluster_3	DN	37752	85411.832	84589	86340	527.8906	0.3952	-1.3394	0.001	0.001	45025	704217	63.844	9814	136688	12.393	2354	37752	4.8953	8.0955	8.0955	24.6936	24.6936	
SP4	CTCF_known1	cluster_3	DN	48942	122906.78	122787	123215	719.5018	0.395	-1.3401	0.001	0.0010435	58221	102072	58.86	11978	21163	10.293	2678	48942	2.8232	4.8496	4.8496	22.3577	22.9658	
SP4	CTCF_known26	cluster_3	DN	1649	3721.69	3656	3888	105.0076	0.3946	-1.3423	0.001	0.001	1668	17369	66.565	379	5163	14.668	99	1649	1.8468	3.8167	3.8167	24.848	24.848	
SP8	ATF2_2	cluster_3	DN	5929	15654.562	14731	15365	192.4424	0.3936	-1.3452	0.001	0.001	8460	118816	61.627	1652	22357	11.917	427	5929	3.4255	5.0473	5.0473	24.9901	25.1579	
SP8	SPDF_6	cluster_3	DN	2867	7303.812	7108	7490	112.4188	0.3926	-1.3488	0.001	0.0010435	5120	56438	65.757	1035	11230	13.084	262	2867	3.3404	5.1072	5.1072	25.314	25.5298	
SP8	KLF12_1	cluster_3	DN	3199	8209.545	7966	8329	193.6855	0.39	-1.3511	0.001	0.001	4199	51268	61.564	1909	23189	13.587	600	3199	3.1189	4.5377	4.5377	24.978	25.3197	
SP8	TFV5_1	cluster_3	DN	1170	2987.582	2812	3152	103.4153	0.3918	-1.3517	0.001	0.0010435	4199	38058	76.542	1288	14466	13.965	130	1170	1.01598	3.096	3.096	10.9102	12.0258	
SP8	HES1_1	cluster_3	DN	876	2243.1	2134	2355	63.1276	0.39	-1.3548	0.001	0.0012632	1101	11720	59.084	414	3965	19.686	99	876	4.4162	6.7695	6.7695	25.4978	25.4978	
SP8	ATF1_2	cluster_3	DN	42818	100993.428	100928	100993	499.2823	0.3899	-1.359	0.001	0.001	84459	64.249	64.249	14529	11957	42818	11.957	14619	11.957	16.439	16.439	24.8428	24.8428	
SP8	SP1_known13	cluster_3	DN	2534	65038.717	64887	65685	407.0306	0.3895	-1.3602	0.001	0.001	39576	519394	65.135	8009	103130	14.781	1953	2534	4.9848	8.4895	8.4895	25.0064	25.0064	
SP8	ATF1_known13	cluster_3	DN	7504	19747.819	18815	19638	229.1111	0.3893	-1.3609	0.001	0.001	10079	161754	66.163	1895	29430	12.038	469	7504	3.0694	4.6532	4.6532	24.7493	24.7493	
SP8	ATF1_known13	cluster_3	DN	48771	48975.976	48771	48985	242.6469	0.3889	-1.3609	0.001	0.001	63560	61.862	61.862	13089	13089	48771	14.848	2324	48771	10.923	16.501	16.501	24.8741	25.021
DP	GME1_1	cluster_4	SP4	1195	3079.597	2912	3233	93.3233	0.3882	-1.365	0.001	0.0010435	5480	9246	67.496	294	424	3.688	74	1195	0.808	1.3028	1.3028	1.2899	15.701	
SP8	PATZ1_1	cluster_3	DN	44136	113889.822	112850	114469	500.6972	0.3882	-1.3651	0.001	0.001	76777	97342	66.217	14319	176126	11.957	3421	44136	2.9964	4.6382	4.6382	24.1955	24.9593	
SP8	SP1_2	cluster_3	DN	35124	88181.19	87442	89738	427.7832	0.3882	-1.3655	0.0															