Supplementary Material

Supplementary Text S1

DNAshapeR Usage

DNAshapeR is a tool for predicting DNAshape data developed in R for ultra-fast, high-throughput prediction of DNA shape features. The package allows prediction, visualization and encoding of DNA shape features for statistical learning.

If you want to use it, you must first start R (version "4.4") and enter:

if (!require("BiocManager", quietly = TRUE))

install.packages("BiocManager")

BiocManager::install("DNAshapeR")

However, its input must be in fasta file format, and the sequence files of the 165 datasets are in csv file format, so they need to be reformatted. The results are then predicted by the toolkit and then the results are saved.

Algorithm: Predicting DNA shape data

Input: DNA sequence data

Output: Shape data prediction files for five DNA shapes EP, HelT, MGW, ProT, Roll

- 1. for folder in all_folder:
- 2. read csv file to data
- 3. Create a vector of strings in fasta format fasta-sequences
- 4. for row in data:
- put each row of data into fasta format into fasta-sequences
- 6. write fasta data to fasta file
- 7. use the getShape method to pass in a fasta file for prediction
- 8. save results to file
- 9. end for

Table S1. Details of 165 ChIP-seq datasets, including the cell line to which it belongs, the TF line, the number of positive and negative samples, and source organism information.

			Train_	dataset	Test_o	lataset				
Cell lines	TFs	s Datasets	r of positive sample	of negativ	r of positive sample		Source organism			
	CTCF	wgEncodeAwgTfbsBroadHepg2CtcfUniPk		324 36128	180	9075				
	EZH2	wgEncodeAwgTfbsBroadHepg2Ezh239875UniPk		235		09				
			2618	2617	654	655				
	СЕВРВ	wgEncodeAwgTfbsHaibHepg2Cebpbsc150V0416101UniPk	28	491	71	23				
		nganoodi ing noordon ing ga cooperation on no routh in	14243	14248	3564	3559				
	ELF1	1 wgEncodeAwgTfbsHaibHepg2Elf1sc631V0416101UniPk	283	315	7079					
			14232	14083	3465	3614				
	FOS	wgEncodeAwgTfbsHaibHepg2Fosl2V0416101UniPk	39	678	99	20	Human			
HepG2			19899	19779	4900	5020	Hepatocellular Carcinoma			
	FOXA1	wgEncodeAwgTfbsHaibHepg2Foxa1sc101058V0416101UniPk	67550		16888		Cells			
		wgElicode/1wg/1031fatto/repg210xta/3e/1010/304004/1010/1011rk	33729	33821	8490	8398				
	FOXA1	wgEncodeAwgTfbsHaibHepg2Foxa1sc6553V0416101UniPk	80:	224	20056					
	TOXAI	wgEncodeAwg110811al011epg210xa18c0353 v0+1010101llll k	40132	40092	10008	10048				
	GABP	wgEncodeAwgTfbsHaibHepg2GabpPcr2xUniPk	15	710	39	28				
	UADI	wgEntodeAwg Hoshaionepg2Gabpret2xOlliPk	7871	7839	1948	1980				
	HDAC	wgFncode AwgTfhsHaihHeng2Hdac2ec62Q6V0A16101UniDl	29	865	74	67				
	TIDAC	wgEncodeAwgTfbsHaibHepg2Hdac2sc6296V0416101UniPk	14926	14939	3740	3727				
	JUND	wg Encode Awg Tfbs Haib Hepg 2 Jund Pcr 1x UniPk	34	142	85	36				

		17095	17047	4244	4292	
		43	721	109	931	
P300	wgEncodeAwgTfbsHaibHepg2P300V0416101UniPk	21887	21834	5439	5492	
		26	051	65	13	
SIN3A	wgEncodeAwgTfbsHaibHepg2Sin3ak20Pcr1xUniPk	13007	13044	3275	3238	
		39	952	99	88	
SP1	wgEncodeAwgTfbsHaibHepg2Sp1Pcr1xUniPk	19891	20061	5079	4909	
GD2		41	52	2 1038		
SP2	wgEncodeAwgTfbsHaibHepg2Sp2V0422111UniPk	2085	2067	510	528	
GDE.	E LA TRA WILL OF GUALCIAN IN	83	372	2094		
SRF	wgEncodeAwgTfbsHaibHepg2SrfV0416101UniPk	4203	4169	1030	1064	
TAE1	To all Amentic Helium at CID a Helium	25:	369	63	43	
TAF1	wgEncodeAwgTfbsHaibHepg2Taf1Pcr2xUniPk	12702	12667	3154	3189	
		23852		59	64	
TEAD4	wgEncodeAwgTfbsHaibHepg2Tead4sc101184V0422111UniPk	11933	11919	2975	2989	
		279	27944		86	
YY1	wgEncodeAwgTfbsHaibHepg2Yy1sc281V0416101UniPk	14065	13879	3400	3586	
-		29	012	72	54	
CEBPB	wgEncodeAwgTfbsSydhHepg2CebpbForskInUniPk	14496	14516	3638	3616	
		89	115	222	279	
CEBPB	wg Encode Awg Tfbs Sydh Hepg 2 Cebpb Iggrab Uni Pk	44654	44461	11044	11235	
CHP	The state And The Coulty Co. 1. I.Y. The	20	036	50	10	
CJUN	wg Encode Awg Tfbs Sydh Hepg 2 Cjun Iggrab Uni Pk	10001	10035	2522	2488	
CORES	E LA EG G HVI GG	85	515	21	29	
Т	wgEncodeAwgTfbsSydhHepg2Corestsc30189IggrabUniPk	4271	4244	1051	1078	
JUND	wgEncodeAwgTfbsSydhHepg2JundIggrabUniPk	508	878	127	720	
		_				

		_				
		25448	25430	6351	6369	_
MAY	waEncode AwaTfhe Swith Heng? May I garah I Inj Pk	18′	774	46	94	
WAX	wgEncodeAwg110sSydinepg2MaxiggrabUniFk	9382	9392	2352	2342	_
TDD	To a de A se TO a Coullett of OThe Level Ha 'Di	21′	732	54	.34	_
IBP	wgEncodeAwg110sSydnHepg210p1ggrab∪niPk	10857	10875	2726	2708	
		70	12	17	54	_
CMYC	wgEncodeAwgTfbsUtaHepg2CmycUniPk	3509	3503	874	880	
CT CT		804	417	20:	105	
CICF	wgEncodeAwg1fbsBroadK562CtcfUniPk	40042	40375	10219	9886	
EGIVA		26	84	67	72	_
EZH2	DEATE WELLECOLOUNG FIUSDI URUKUUZEZIIZ 370 / JUIIIFR	1366	1318	311	361	
	wgEncodeAwgTfbsBroadK562Hdac2a300705aUniPk	8380		2096		-
HDAC		4185	4195	1053	1043	
HDAC	HDAC wgEncodeAwgTfbsBroadK562Hdac6a301341aUniPk	17	79	44	45	_
HDAC		884	895	228	217	
CEDDD	wgEncodeAwgTfbsHaibK562Cebpbsc150V0422111UniPk	34′	747	86	87	Human Chro
СЕВРВ						Transar Ciro
CEBPB	wgEncodeAwgTfbsHaibK562Cebpbsc150V0422111UniPk	17353	17394	4364	4323	Myelogenou
			17394 403		4323 851	_
ELF1	wgEncodeAwgTfbsHaibK562Cebpbsc150V0422111UniPk wgEncodeAwgTfbsHaibK562Elf1sc631V0416102UniPk	434		108		_
ELF1	wgEncodeAwgTfbsHaibK562Elf1sc631V0416102UniPk	43 <i>a</i> 21787	403	108	851	_
		434 21787 173	403 21616	108	851 5511	_
ELF1 FOS	wgEncodeAwgTfbsHaibK562Elf1sc631V0416102UniPk wgEncodeAwgTfbsHaibK562Fosl1sc183V0416101UniPk	434 21787 17: 8782	403 21616 569	108 5340 43 2199	5511	_
ELF1	wgEncodeAwgTfbsHaibK562Elf1sc631V0416102UniPk	43-21787 17: 8782	403 21616 569 8787	108 5340 43 2199	5511 93 2194	_
ELF1 FOS GABP	wgEncodeAwgTfbsHaibK562Elf1sc631V0416102UniPk wgEncodeAwgTfbsHaibK562Fosl1sc183V0416101UniPk wgEncodeAwgTfbsHaibK562GabpV0416101UniPk	43-21787 17:3 8782 22:11191	403 21616 569 8787	108 5340 43 2199 55 2801	5511 93 2194	_
ELF1 FOS	wgEncodeAwgTfbsHaibK562Elf1sc631V0416102UniPk wgEncodeAwgTfbsHaibK562Fosl1sc183V0416101UniPk	43-21787 17: 8782 22: 11191	403 21616 5669 8787 387	108 5340 43 2199 55 2801	5511 93 2194 97 2796	Myelogenou
	MAX TBP CMYC CTCF EZH2 HDAC	TBP wgEncodeAwgTfbsSydhHepg2TbpIggrabUniPk CMYC wgEncodeAwgTfbsUtaHepg2CmycUniPk CTCF wgEncodeAwgTfbsBroadK562CtcfUniPk EZH2 wgEncodeAwgTfbsBroadK562Ezh239875UniPk HDAC wgEncodeAwgTfbsBroadK562Hdac2a300705aUniPk HDAC wgEncodeAwgTfbsBroadK562Hdac6a301341aUniPk	MAX wgEncodeAwgTfbsSydhHepg2MaxIggrabUniPk 9382 TBP wgEncodeAwgTfbsSydhHepg2TbpIggrabUniPk 10857 CMYC wgEncodeAwgTfbsUtaHepg2CmycUniPk 3509 CTCF wgEncodeAwgTfbsBroadK562CtcfUniPk 40042 EZH2 wgEncodeAwgTfbsBroadK562Ezh239875UniPk 1366 HDAC wgEncodeAwgTfbsBroadK562Hdac2a300705aUniPk 4185 HDAC wgEncodeAwgTfbsBroadK562Hdac6a301341aUniPk 884	18774 MAX wgEncodeAwgTfbsSydhHepg2MaxIggrabUniPk 9382 9392 21732 TBP wgEncodeAwgTfbsSydhHepg2TbpIggrabUniPk 10857 10875 7012 CMYC wgEncodeAwgTfbsUtaHepg2CmycUniPk 80417 CTCF wgEncodeAwgTfbsBroadK562CtcfUniPk 40042 40375 EZH2 wgEncodeAwgTfbsBroadK562Ezh239875UniPk 1366 1318 HDAC wgEncodeAwgTfbsBroadK562Hdac2a300705aUniPk 4185 4195 HDAC wgEncodeAwgTfbsBroadK562Hdac6a301341aUniPk 884 895 HDAC wgEncodeAwgTfbsBroadK562Hdac6a301341aUniPk 884 895	MAX wgEncodeAwgTfbsSydhHepg2MaxIggrabUniPk 9382 9392 2352 TBP wgEncodeAwgTfbsSydhHepg2TbpIggrabUniPk 10857 10875 2726 CMYC wgEncodeAwgTfbsUtaHepg2CmycUniPk 80 +1	MAX wgEncodeAwgTfbsSydhHepg2MaxIggrabUniPk P382 9392 2352 2342 B1 10857 10875 2726 2708 TBP wgEncodeAwgTfbsSydhHepg2TbpIggrabUniPk 10857 10875 2726 2708 T0H 10857 10857 2726 2728 T0H 10857 10857 2726 T0H 10857 10857 272

		5288	5251	1299	1336
		70:	233	17:	559
MAX	wgEncodeAwgTfbsHaibK562MaxV0416102UniPk	34919	35314	8977	8582
CINIO	To a december 11 11 11 11 11 11 11 11 11 11 11 11 11	199	993	49	99
SIN3A	wgEncodeAwgTfbsHaibK562Sin3ak20V0416101UniPk	9982	10011	2514	2485
CDE	wo Feed de Amerika Heile V 5/20-5V0416 101 Heile	74	14	1854	
SRF	wgEncodeAwgTfbsHaibK562SrfV0416101UniPk	3725	3689	909	945
TAE1	wa Farada Awa Tiba Haib V SCOT a GI V 041 C 10 Hai Dia	23-	428	58	58
TAF1	wgEncodeAwgTfbsHaibK562Taf1V0416101UniPk	11726	11702	2917	2941
TEAD4	E LA TRE WILVESCOT, 14 101104V0400111W IN	48:	372	12094	
TEAD4	wgEncodeAwgTfbsHaibK562Tead4sc101184V0422111UniPk		24191	6052	6042
V77/1	E LA TRE WILLEGAN WOLLDWIN	19	19684		92
YY1	wgEncodeAwgTfbsHaibK562Yy1V0416101UniPk	9882	9802	2421	2501
****		37296		93	24
YY1	wgEncodeAwgTfbsHaibK562Yy1V0416102UniPk	18598	18698	4712	4612
CEDDD	The day The Call W5 (20 ball and Hail)	60-	416	15104	
CEBPB	wg Encode Awg Tfbs Sydh K 562 Cebpb Iggrab Uni Pk	30270	30146	7492	7612
FOG	E LA TEGO HAZZOGO W.DI	119	968	29	92
FOS	wgEncodeAwgTfbsSydhK562CfosUniPk	5985	5983	1495	1497
CW DY		154	460	38	66
CJUN	wgEncodeAwgTfbsSydhK562CjunUniPk	7788	7672	1875	1991
CORES		56	211	140	053
T	wgEncodeAwgTfbsSydhK562Corestsc30189IggrabUniPk	28109	28102	7023	7030
Q.I.T.: 5		16	649	4163	
GATA2	wg Encode Awg Tfbs Sydh K562 Gata 2 Ucd UniPk	8323	8326	2083	2080
JUND	wg Encode Awg Tfbs Sydh K 562 Jund Iggrab Uni Pk	62	753	150	589

			31391	31362	7830	7859		
	MAX	wgEncodeAwgTfbsSydhK562MaxIggrabUniPk	49	299	12:	325		
	MAX	wgEncodeAwg 11bsSydnK362Max1ggrabUniPk	24653	24646	6159	6166	_	
	P300	tueForced Assortion Codb/ 5 (2D200) accord Vai Di-	40	425	10	107		
	P300	wgEncodeAwgTfbsSydhK562P300IggrabUniPk	20236	20189	5030	5077	_	
	ТВР	wgEncodeAwgTfbsSydhK562TbpIggmusUniPk	27	345	68	37		
	IBF	wgEncodeAwg1108Sydiik30210piggiilusOiliFk	13654	13691	3437	3400	_	
	YY1	wgEncodeAwgTfbsSydhK562Yy1UcdUniPk	76	538	19	10		
		wgElicodeAwg110s5ydiik5021y10cdoiii1k	3812	3826	962	948		
	FOS	wgEncodeAwgTfbsUchicagoK562EfosUniPk	16	120	40	30		
	103	wgEncodeAwg110sOCincagoX302Ei0sOiiii K	8064 8056		2011	2019	_	
	GATA2	wgEncodeAwgTfbsUchicagoK562Egata2UniPk	18004	004	4502			
	OATA2	wgEncodeAwg HosocincagoK302Egata20iii1 K	9008	8996	2245	2257	_	
	HDAC	wgEncodeAwgTfbsUchicagoK562Ehdac8UniPk	27	734	684			
		wgEncodeAwg11050cineagoK502Endacoonii k	1376	1358	333	351	_	
	JUND	wgEncodeAwgTfbsUchicagoK562EjundUniPk	41771		10443			
		wgEncode/twg110socineago(t302Ejundom) k	20954	20817	5153	5290	_	
	CTCF	wgEncodeAwgTfbsUtaK562CtcfUniPk	86	808	21702			
	CTCI	wgElicode/twg11030talt202CtcTollif k	43374	43434	10881	10821		
	ELF1	wgEncodeAwgTfbsHaibA549Elf1V0422111Etoh02UniPk	13-	468	33	68		
		"genedaering Horizanio 1517 En 170 1221 1 Etologo en 18	6782	6686	1636	1732		
	FOS	wgEncodeAwgTfbsHaibA549Fosl2V0422111Etoh02UniPk	44	750	11	188	Human Lung	
A549		wgLicouch wg 110811ai0703-71 0812 404-221 11 Etolio 201111 K	22355	22395	5614	5574	Adenocarcinor	
	FOXA1	wgEncodeAwgTfbsHaibA549Foxa1V0416102Dex100nmUniPk	12	054	30	14	a Cells	
	TOAAI	wgEncodeAwg1105Hal0AJ+7F0Xa1Y04H0102DeX100HHUHIPK	6009	6045	1525	1489	_	
	GABP	wgEncodeAwgTfbsHaibA549GabpV0422111Etoh02UniPk	18	315	45	79		

			9203	9112	2244	2335	
	GD 10.4		95	16	23	80	
	SIN3A	wgEncodeAwgTfbsHaibA549Sin3ak20V0422111Etoh02UniPk	4765	4751	1183	1197	
	T. 151		150	691	39	23	
	TAF1	wgEncodeAwgTfbsHaibA549Taf1V0422111Etoh02UniPk	7833	7858	1974	1949	
	CERRE		60	745	15	187	
	CEBPB	wg Encode Awg Tfbs Sydh A 549 Cebpb Iggrab Uni Pk	30409	30336	7557	7630	
	CTCF	wa Fanna da Ausa Tiba Dana di Hilana a Chafi Ini Dh	103	174	25	794	
		wg Encode Awg Tfbs Broad H1 hesc Ctcf UniPk	51646	51528	12838	12956	
	FOS	wgEncodeAwgTfbsHaibH1hescFosl1sc183V0416102UniPk	17	'58	4	40	
		wgencodeAwg1108HallDH1flescF08118c185 V0410102UmPk	875	883	224	216	
	GABP	wg Encode Awg Tfbs Haib H1 hesc Gabp Pcr1x UniPk	89	968	2242		
			4490	4478	1115	1127	
	HDAC	wgEncodeAwgTfbsHaibH1hescHdac2sc6296V0416102UniPk	89	953	22	39	
			4472	4481	1124	1115	
	SP1	wgEncodeAwgTfbsHaibH1hescSp1Pcr1xUniPk	23648		5912		Human
H1hesc	511	wgEncocAwg Hostraloff mesespit efficilit k	11833	11815	2947	2965	Embryonic
	SP2	wgEncodeAwgTfbsHaibH1hescSp2V0422111UniPk	3830		958		Stem Cells
		"geneodeling 110014d011110300p2 10 122111 0 iiii 1	1915	1915	479	479	
	SRF	wgEncodeAwgTfbsHaibH1bescSrfPcr1xUniPk	80	009	2003		
	SRF	wg Encode Awg Tfbs Haib H1 hesc SrfPcr1x UniPk	4008	4001	998	1005	
			4006	4001			
	TEAD4	wgFncodeAwgTfhsHaibH1hescTead4sc101184V0422111UniPk		233		609	
	TEAD4	wgEncodeAwgTfbsHaibH1hescTead4sc101184V0422111UniPk	31:			3920	
			31:	233	78 3889		
	TEAD4	wgEncodeAwgTfbsHaibH1hescTead4sc101184V0422111UniPk wgEncodeAwgTfbsHaibH1hescYy1sc281V0416102UniPk	31: 15632 286	233 15601	78 3889	3920	

			12295	12177	3001	3117	
			112	228	28	608	
	TBP	wg Encode Awg Tfbs Sydh H1 hesc Ctbp 2 Ucd UniPk	5625	5603	1393	1415	
	ILINID	wa Faranda Awa TAra Cudh Hilbara Lund Lawah Hai Dh	150	019	37	55	
	JUND	wg Encode Awg Tfbs Sydh H1 hesc Jund Iggrab Uni Pk	7532	7487	1855	1900	
	MAX	wgEncodeAwgTfbsSydhH1hescMaxUcdUniPk	17:	553	43	89	
	WAX	wgEncodeAwg HbsSydiiri HescMaxOcdOlliFk	8709	8844	2262	2127	
	SIN3A	wgEncodeAwgTfbsSydhH1hescSin3anb6001263IggrabUniPk	33	697	8425		
	SINJA	wgElicoteAwg11053ydii111ieseSii13aii000012031ggrabOiii1 k	16812	16885	4249	4176	
	CMYC	wgEncodeAwgTfbsUtaH1hescCmycUniPk	19	39	4	85	
		wgEncode/twg11030tai17fic3eCnfyeOnif k	971	968	241	244	
	CTCF	wgEncodeAwgTfbsUtaH1hescCtcfUniPk	67	601	169	901	
		"general ring rissolar ringsector our k	33756	33845	8495	8406	
	CTCF	wgEncodeAwgTfbsBroadHelas3CtcfUniPk	810	049	202	263	
		"genedal i "griospiolariens sectem i	40493	40556	10163	10100	
	EZH2	wgEncodeAwgTfbsBroadHelas3Ezh239875UniPk	28	340	7	10	
			1404	1436	371	339	
	POL2B	wgEncodeAwgTfbsBroadHelas3Pol2bUniPk	47	79	11	95	
			2385	2394	602	593	Human Cervical
HelaS3	GABP	wgEncodeAwgTfbsHaibHelas3GabpPcr1xUniPk	10-	494	26	524	Carcinoma Cells
			5231	5263	1328	1296	
	СЕВРВ	wg Encode Awg Tfbs Sydh Helas 3 Cebpb Iggrab Uni Pk	94	892	23'	724	
			47379	47513	11930	11794	
	FOS	wg Encode Awg Tfbs Sydh Helas 3 C fos UniPk	14	494	36	24	
			7251	7243	1808	1816	
	CJUN	wg Encode Awg Tfbs Sydh Helas 3 Cjun Iggrab Uni Pk	340	089	85	23	

			-				
			17057	17032	4249	4274	-
	HAE2F1	wgEncodeAwgTfbsSydhHelas3Hae2f1UniPk	15	990	39	98	
		wgElicode/twg110359difficias/ffac2ff Offit K	7993	7997	2001	1997	_
	шлиъ		49	201	123	301	
	JUND	wg Encode Awg Tfbs Sydh Helas 3 Jund Iggrab Uni Pk	24647	24554	6104	6197	
			46	209	11:	553	-
	MAX	wg Encode Awg Tfbs Sydh Helas 3 Max Iggrab UniPk	23129	23080	5752	5801	
	P300	wgEncodeAwgTfbsSydhHelas3P300sc584sc584IggrabUniPk	40	262	100	066	-
	F300	wgEilcodeAwg11055ydiifieia55r5005c5645c564iggtabOliiFk	20156	20106	5008	5058	_
	CT A TO		21	563	53	91	
	STAT3	wg Encode Awg Tfbs Sydh Helas 3 Stat 3 Iggrab Uni Pk	10740	10823	2737	2654	
	CTTCT		90	883	227	721	
	CTCF	wgEncodeAwgTfbsUtaHelas3CtcfUniPk	45460	45423	11343	11378	
n moo	CEDDD	E LA TRI G HA COGLIA LA LA PA	109	712	274	428	Human Fetal
IMR90	СЕВРВ	wg Encode Awg Tfbs Sydh Imr 90 Cebpb Iggrab UniPk		54851			Human Fetal Lung Fibroblast Cells
IMR90			54861		13710		Lung Fibroblast
	CEBPB	wgEncodeAwgTfbsSydhImr90CebpbIggrabUniPk wgEncodeAwgTfbsBroadDnd41CtcfUniPk	54861	54851	13710	13718	Lung Fibroblast
IMR90 Dnd41	CTCF	wgEncodeAwgTfbsBroadDnd41CtcfUniPk	54861 77. 38783	54851	13710 193 9674	13718 383	Lung Fibroblast Cells
			54861 77. 38783	54851 531 38748	13710 193 9674	13718 383 9709	Lung Fibroblast Cells Human T-cell
	CTCF EZH2	wgEncodeAwgTfbsBroadDnd41CtcfUniPk wgEncodeAwgTfbsBroadDnd41Ezh239875UniPk	54861 77. 38783 26	54851 531 38748	13710 193 9674 67 348	13718 383 9709	Lung Fibroblast Cells Human T-cell
	CTCF	wgEncodeAwgTfbsBroadDnd41CtcfUniPk	54861 77 38783 26 1329	54851 531 38748 581 1352	13710 193 9674 6' 348	13718 383 9709 71 323	Lung Fibroblast Cells Human T-cell
	CTCF EZH2 CTCF	wgEncodeAwgTfbsBroadDnd41CtcfUniPk wgEncodeAwgTfbsBroadDnd41Ezh239875UniPk wgEncodeAwgTfbsBroadGm12878CtcfUniPk	54861 77. 38783 26 1329 69. 34753	54851 531 38748 681 1352	13710 193 9674 67 348 173 8644	13718 383 9709 71 323 359	Lung Fibroblast Cells Human T-cell Leukemia Cells
	CTCF EZH2	wgEncodeAwgTfbsBroadDnd41CtcfUniPk wgEncodeAwgTfbsBroadDnd41Ezh239875UniPk	54861 77 38783 26 1329 69 34753 35	54851 531 38748 581 1352 435 34682	13710 193 9674 67 348 173 8644	13718 383 9709 71 323 359 8715	Lung Fibroblast Cells Human T-cell
	CTCF EZH2 CTCF	wgEncodeAwgTfbsBroadDnd41CtcfUniPk wgEncodeAwgTfbsBroadDnd41Ezh239875UniPk wgEncodeAwgTfbsBroadGm12878CtcfUniPk wgEncodeAwgTfbsHaibGm12878Elf1sc631V0416101UniPk	54861 77. 38783 26 1329 69. 34753 35	54851 531 38748 681 1352 435 34682	13710 193 9674 67 348 173 8644 89	13718 383 9709 71 323 359 8715	Lung Fibroblast Cells Human T-cell Leukemia Cells Human B-
	CTCF EZH2 CTCF	wgEncodeAwgTfbsBroadDnd41CtcfUniPk wgEncodeAwgTfbsBroadDnd41Ezh239875UniPk wgEncodeAwgTfbsBroadGm12878CtcfUniPk	54861 77. 38783 26 1329 69. 34753 35	54851 531 38748 581 1352 435 34682 684 17827	13710 193 9674 67 348 173 8644 89	13718 383 9709 71 323 359 8715 222 4476	Lung Fibroblast Cells Human T-cell Leukemia Cells Human B- Lymphoblastoid
	CTCF EZH2 CTCF	wgEncodeAwgTfbsBroadDnd41CtcfUniPk wgEncodeAwgTfbsBroadDnd41Ezh239875UniPk wgEncodeAwgTfbsBroadGm12878CtcfUniPk wgEncodeAwgTfbsHaibGm12878Elf1sc631V0416101UniPk	54861 77 38783 26 1329 69 34753 35 17857 10	54851 531 38748 681 1352 435 34682 684 17827 211	13710 193 9674 67 348 173 8644 89 4446 25	13718 383 9709 71 323 359 8715 222 4476	Lung Fibroblast Cells Human T-cell Leukemia Cells Human B- Lymphoblastoid

		4034	4018	999	1015	
		39	841	99	61	
Pax5	wgEncodeAwgTfbsHaibGm12878Pax5c20Pcr1xUniPk	20004	19837	4897	5064	
D 5	E 14 TO U.G. 10070D 5 10D 1 U.D.	310	012	77	54	
Pax5	wgEncodeAwgTfbsHaibGm12878Pax5n19Pcr1xUniPk	15487	15525	3896	3858	
		22:	305	55	77	
TAF1	wgEncodeAwgTfbsHaibGm12878Taf1Pcr1xUniPk	11154	11151	2787	2790	
VV1	F I. A	48	142	120	036	
YY1	wgEncodeAwgTfbsHaibGm12878Yy1sc281Pcr1xUniPk	24010	24132	6079	5957	
Fog		3488		872		
FOS	S wgEncodeAwgTfbsSydhGm12878CfosUniPk	1749	1739	431	441	
HDID			3892		74	
JUND	wgEncodeAwgTfbsSydhGm12878JundUniPk	1974	1918	459	515	
		19747		49	37	
MAX	wgEncodeAwgTfbsSydhGm12878MaxIggmusUniPk	9872	9875	2470	2467	
		26	700	66	6676	
NFKB	wg Encode Awg Tfbs Sydh Gm 12878 Nfkb Tn fa Iggrab Uni Pk	13345	13355	3343	3333	
		96	597	24	25	
P300	wgEncodeAwgTfbsSydhGm12878P300bUniPk	4880	4817	1181	1244	
		10	185	25	47	
STAT3	wg Encode Awg Tfbs Sydh Gm 12878 Stat 3 Iggmus Uni Pk	5118	5067	1248	1299	
	D 14 70 2 72 22 22 2	233	278	58	20	
TBP	wg Encode Awg Tfbs Sydh Gm 12878 Tbp Iggmus UniPk	11684	11594	2865	2955	
		58	330	14	58	
CMYC	wgEncodeAwgTfbsUtaGm12878CmycUniPk	2923	2907	721	737	
CTCF	wgEncodeAwgTfbsUtaGm12878CtcfUniPk	75:	536	18	384	

Hmec	CTCF	wg Encode Awg Tfbs Broad Hmec Ctcf UniPk		801 30949	7774	451 7677	Human Mammary Epithelial Cells
	CTCF	wgEncodeAwgTfbsBroadHsmmCtcfUniPk	79	036	19	760	•
			39592	39444	9806	9954	-
Hsmm	EZH2	wgEncodeAwgTfbsBroadHsmmEzh239875UniPk	24	164	6	16	Human Skeletal Muscle
11311111		wgEneoder (wg 1103DroddrishiniEE212570750iii) k	1239	1225	300	316	Myoblast Cells
	CTT CTT		74	404	18	602	
	CTCF	wg Encode Awg Tfbs Broad Hsmmt Ctcf UniPk	37327	37077	9176	9426	
			58	102	14	526	
	CTCF	wg Encode Awg Tfbs Broad Huvec Ctcf UniPk	29058	29044	7256	7270	
			6788		1698		-
	EZH2	wgEncodeAwgTfbsBroadHuvecEzh239875UniPk	3397	3391	845	853	
			83	334	20	084	_
	POL2B	wg Encode Awg Tfbs Broad Huvec Pol 2b UniPk	4187	4147	1022	1062	
		FOS wgEncodeAwgTfbsSydhHuvecCfosUcdUniPk	72	961	18	241	Human Umbilical Vein
Huvec	FOS		36461	36500	9140	9101	Endothelial Cells
			46128		11532		Cens
	CJUN	wg Encode Awg Tfbs Sydh Huvec Cjun UniPk	23077	23051	5753	5779	
			42	681	10671		-
	GATA2	wg Encode Awg Tfbs Sydh Huvec Gata 2 Ucd UniPk	21339	21342	5337	5334	
			14	409	36	503	
	MAX	wg Encode Awg Tfbs Sydh Huvec Max UniPk	7214	7195	1792	1811	
			59	652	14	914	Human Adrenal
Nha	CTCF	wg Encode Awg Tfbs Broad Nha Ctcf UniPk	29817	29835	7466	7448	Cortex Cells
Nhdfad	CTCF	wg Encode Awg Tfbs Broad Nhdfad Ctcf UniPk	75	851	18	963	

			37984	37867	9423	9540	Human Dermal Fibroblast Adult												
			72	955	182	239													
Nhek	CTCF	wg Encode Awg Tfbs Broad Nhek Ctcf UniPk	36566	36389	9031	9208	Human Renal Proximal												
NIICK			90)46	22	62	Tubule Epithelial Cells												
	POL2B	wg Encode Awg Tfbs Broad Nhek Pol 2b UniPk	4516	4530	1138	1124	Epithenai Cens												
NT 16	omor.		61337		61337		61337		61337		61337		15:	335	Human Lung				
Nhlf	CTCF	wg Encode Awg Tfbs Broad Nhlf Ctcf UniPk	30645	30692	7691 7644		Fibroblast												
Ostada	CTCE	To a laboration Provide to the ICC of the IDC	86148		21:	538	Human												
Osteobl	CICF	wg Encode Awg Tfbs Broad Osteobl Ctcf UniPk	42935	43213	10908	10630	Osteoblast												
		wgEncodeAwgTfbsHaibEcc1Foxa1sc6553V0416102Dm002p1hUni	9283				9283		23	21	Human Endometrial								
Ecc1	FOXA1	Pk	4671	4612	1131	1190	Carcinoma Cells												
			4979		12	45													
Gm1289	Pax5	wgEncodeAwgTfbsHaibGm12891Pax5c20V0416101UniPk	2497	2482	615	630	Human B-												
1	MEMB	wa Francia Awa The Sudh Cm 1280 I Nill h Tafa I garah I ni Dk	450	032	112	258	Lymphocyte												
	NFKB	wgEncodeAwgTfbsSydhGm12891NfkbTnfaIggrabUniPk	22489	22543	5656	5602													
	PAX5		16284		4072														
	FAAS	wgEncodeAwgTfbsHaibGm12892Pax5c20V0416101UniPk	8076	8208	2102	1970	_												
	TAE1	use Francia Assertita Maile Car 12002Ta CIV/0414102Ua; Di-	14776		3694														
Gm1289	TAF1	wgEncodeAwgTfbsHaibGm12892Taf1V0416102UniPk	7381	7395	1854	1840	Human B-												
2	YY1	wgEncodeAwgTfbsHaibGm12892Yy1V0416101UniPk	24	763	61	91	Lymphocyte												
	111	wgEilcodeAwg1108Hai0Gii1126921 y1 V0410101UiiFk	12306	12457	3171	3020													
	NFKB	wgEncodeAwgTfbsSydhGm12892NfkbTnfaIggrabUniPk	12	865	32	17													
	NFKB	wgEncodeAwg11085ydilGili12692Nik01iliaiggia0UiliFk	6423	6442	1618	1599													
Hct116	YY1	wgEncodeAwgTfbsHaibHct116Yy1sc281V0416101UniPk	20043		20043		20043		20043		20043		20043		20043		50	11	Human Colon Carcinoma
1101110	111	wgEncodeAwg110511ai01tet1101 y18c261 v0410101UIIIPK	9998	10045	2529	2482	Cells												
Panc1	SIN3A	wgEncodeAwgTfbsHaibPanc1Sin3ak20V0416101UniPk	11:	289	28	23													

			5690	5599	1366	1457	Human Pancreatic Carcinoma Cells
				73086		272	
Clanchao	P300	wgEncodeAwgTfbsHaibSknshraP300V0416102UniPk	36487	36599	9192	9080	Human Neuroblastoma
Sknshra			24422		6106		Cells
	YY1	wgEncodeAwgTfbsHaibSknshraYy1sc281V0416102UniPk	12189	12233	3075	3031	
		wgEncodeAwgTfbsHaibT47dP300V0416102Dm002p1hUniPk	21969		5493		
	P300		10977	10992	2754	2739	
		weEncode AweTthsHaihT47dEoxa Isc6553V0416102Dm002n1hI Ini	65257		16315		Human Breast
	FOXA1	Pk					Carcinoma Cells
T47d	FOXA1	Pk	32624	32633	8162	8153	Cells
T47d		wgEncodeAwgTfbsHaibT47dGata3sc268V0416102Dm002p1hUniP		32633 292		8153 574	Cells
T47d	GATA3	wgEncodeAwgTfbsHaibT47dGata3sc268V0416102Dm002p1hUniP	583				Cells

7234 7311 1857 1780

Cells

	CMYC	C wgEncodeAwgTfbsSydhNb4CmycUniPk	41251 20572 20679		10313 5210 5103		Human Acute
Nb4	MAX	wgEncodeAwgTfbsSydhNb4MaxUniPk		438 27229		610	- Promyelocytic Leukemia Cells
Sknsh	TAF1	wgEncodeAwgTfbsHaibSknshTaf1V0416101UniPk		908 10906	54 2691	2787	Human Neuroblastoma Cells
Gm1852	NFKB	wgEncodeAwgTfbsSydhGm18526NfkbTnfaIggrabUniPk	48 2395	2425	12 617	206 589	Human Lymphoblast Cells
Gm1909	NFKB	wgEncodeAwgTfbsSydhGm19099NfkbTnfaIggrabUniPk	6073	190 6117	30 1546	1502	Human Lymphoblast Cells
Mcf10ae s	FOS	wg Encode Awg Tfbs Sydh Mcf10 aes Cfos Tam 112h Hvd UniPk		425 71575		857 18066	Human Mammary Epithelial Cells

			134080	33520		
	FOS	wgEncodeAwgTfbsSydhMcf10aesCfosTam14hHvdUniPk	67066 67014	16734 16786		
	FOS	wgEncodeAwgTfbsSydhMcf10aesCfosTamHvdUniPk	109454	27364		
			54707 54747	13702 13662	-	
	STAT3	wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Etoh 01 b UniPk	70411	17603		
			35281 35130	8726 8877		
	STAT3	wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Etoh 01 c UniPk	64587	16147		
			32324 32263			
	STAT3	wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Etoh 01 UniPk	19377 9713 9664	4845		
			9713 9664	2398 2447 15567		
	STAT3	wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Tam 112 h Hvd UniPk	31109 31156			
			69246	17312	-	
	STAT3	wgEncodeAwgTfbsSydhMcf10aesStat3TamUniPk	34662 34584	8617 8695		
			7465	1867	Human Embryonic	
Nt2d1	YY1	wgEncodeAwgTfbsSydhNt2d1Yy1UcdUniPk	3690 3775	976 891	Carcinoma Cells	
	GATA2	wgEncodeAwgTfbsSydhShsy5yGata2UcdUniPk	55936	13984		
Shsy5y			27935 28001	7025 6959	Human Neuroblastoma	
	GATA3	wgEncodeAwgTfbsSydhShsy5yGata3sc269sc269UcdUniPk	24948	6238	Cells	
			12440 12508	3153 3085		
	GATA3	wgEncodeAwgTfbsSydhMcf7Gata3UcdUniPk	9585	2397		
Mcf7			4793 4792	1198 1199	Human Breast	
	HAE2F1	wgEncodeAwgTfbsSydhMcf7Hae2f1UcdUniPk	30704 15377 15327	7676 3813 3863	Carcinoma Cells	
	CTCF		90049	22513		
		wgEncodeAwgTfbsUtaMcf7CtcfUniPk	45057 44992	11224 11289		

Table S2. Partial Hyper-parameter settings of TEMNet.

parameters	Search space	optimal parameter	
Epoch	15,40,60,100	40	
Learning rate	0.01,0.001,0.0015,0.0018,0.002	0.0018	
Batch size	32,64,128	64	
Optimizer	Adam, AdamW, SGD	AdamW	
dropout ratio	0.1,0.2,0.4,0.6	0.4	
EMA factor	1,2,4	4	
MLP hidden units	[512,192,1]	[512,192,1]	

Table S3. The detailed settings of the sequence data section.

Architectures	Settings	Output shape
Bi-LSTM Layer	input_size=12 hidden_size=64 num_layers=2	(64,99,128)
Res1	input_channels=128 output channels=128 num_residuals=2	(64,128,1,99)
Res2	input_channels=128 output channels=256 num_residuals=2	(64,256,1,50)
Convolution_seq Layer1	Batch Norm-feature=256 ELU kernel number = 256 kernel size = (1, 3) stride = (1, 1)	(64,256,1,48)
Dropout Layer	dropout=0.4	(64,256,1,48)
Convolution_seq Layer2	Batch Norm-feature=256 ELU kernel number = 256 kernel size = (1, 3) stride = (1, 1)	(64,256,1,46)
Max-pooling Layer1	kernel size=(1, 3) stride = (1, 1)	(64,256,1,44)

Table S4. The detailed settings of the shape data section.

Architectures	Settings	Output shape
Conv_to_TA	input_channels=1 output channels=8 kernel size = (1, 1)	(64,8,5,101)
TA Layer	input_channels=8 output channels=64	(64,256,1,7)
Convolution_shape Layer1	kernel number = 64 kernel size = (1, 3) stride = (1, 1) ELU Batch Norm- feature=64	(64,256,1,7)
Max-pooling Layer1	kernel size= $(1, 3)$ stride = $(1, 1)$	(64,256,1,5)
Dropout Layer	dropout=0.4	(64,256,1,5)
Bi-LSTM Layer	input_size=5 hidden_size=5 num_layers=16	(64,256,10)
Convolution_shape Layer2	Batch Norm- feature=64 ELU kernel number = 64 kernel size = (1, 3) stride = (1, 1)	(64,256,1,10)
Max-pooling Layer2	kernel size= $(1, 1)$ 3) stride = $(1, 1)$	(64,256,1,8)

Table S5. The detailed settings of the enhanced fusion feature extraction modules.

Architectures	Settings	Output shape
EMA	channels=256 factor=4	(64,256,1,52)
Convolution Layer1	kernel number = 256 kernel size = (1, 5) stride = (1, 1) ELU Batch Norm-feature=512	(64,256,1,48)
Max-pooling Layer1	kernel size= $(1, 3)$ stride = $(1, 1)$	(64,256,1,46)

Table S6. Overlap of all transcription factors in 165 ChIP-seq datasets.

Cell lines	TF lines
	Shared transcription factors (18): CEBPB, COREST, CTCF, ELF1, EZH2, FOS,
	GABP, HDAC, CJUN, JUND, MAX, P300, SIN3A, SRF, TAF1, TBP, TEAD4,
Cells: HepG2 & K562	YY1
	Shared transcription factors (7): CEBPB, ELF1, FOS, FOXA1, GABP, SIN3A,
Cells: HepG2 & A549	TAF1
	Shared transcription factors (15): CEBPB, CTCF, FOS, GABP, HDAC, CJUN,
Cells: HepG2 & H1hesc	MAX, CMYC, SIN3A, SP1, SP2, SRF, TBP, TEAD4, YY1
	Shared transcription factors (9): CEBPB, CTCF, EZH2, FOS, GABP, CJUN,
Cells: HepG2 & HeLaS3	JUND, MAX, P300
Cells: HepG2 & IMR90	Shared transcription factors (1): CEBPB
Cells: HepG2 & Dnd41	Shared transcription factors (2): CTCF, EZH2
	Shared transcription factors (11): CTCF, ELF1, FOS, GABP, JUND, MAX,
Cells: HepG2 & Gm12878	CMYC, P300, TAF1, TBP, YY1
Cells: HepG2 & Hmec	Shared transcription factors (1): CTCF
Cells: HepG2 & Hsmm	Shared transcription factors (2): CTCF, EZH2
Cells: HepG2 & Huvec	Shared transcription factors (5): CTCF, EZH2, FOS, CJUN, MAX
Cells: HepG2 & Nha	Shared transcription factors (1): CTCF
Cells: HepG2 & Nhdfad	Shared transcription factors (1): CTCF
Cells: HepG2 & NHEK	Shared transcription factors (1): CTCF
Cells: HepG2 & NHLF	Shared transcription factors (1): CTCF
Cells: HepG2 & Osteobl	Shared transcription factors (1): CTCF
Cells: HepG2 & Ecc1	Shared transcription factors (1): FOXA1
Cells: HepG2 & Gm12892	Shared transcription factors (2): TAF1, YY1
Cells: HepG2 & HCT116	Shared transcription factors (1): YY1
Cells: HepG2 & Panc1	Shared transcription factors (1): SIN3A
Cells: HepG2 & SkNSHRA	Shared transcription factors (2): P300, YY1
Cells: HepG2 & T47D	Shared transcription factors (2): FOXA1, P300
Cells: HepG2 & NB4	Shared transcription factors (2): MAX, CMYC
Cells: HepG2 & SkNSH	Shared transcription factors (1): TAF1
Cells: HepG2 & Mcf10aes	Shared transcription factors (1): FOS
Cells: HepG2 & NT2D1	Shared transcription factors (1): YY1
Cells: HepG2 & MCF7	Shared transcription factors (1): CTCF
Cells: K562 & A549	Shared transcription factors (6): CEBPB, ELF1, FOS, GABP, SIN3A, TAF1
	Shared transcription factors (12): CEBPB, CTCF, FOS, GABP, HDAC, CJUN,
Cells: K562 & H1hesc	MAX, SIN3A, SRF, TBP, TEAD4, YY1
	Shared transcription factors (9): CEBPB, CTCF, EZH2, FOS, GABP, CJUN,
Cells: K562 & HeLaS3	JUND, MAX, P300
Cells: K562 & IMR90	Shared transcription factors (1): CEBPB

Shared transcription factors (2): CTCF, EZH2		
Cells: K562 & Hmec Cells: K562 & Hmec Shared transcription factors (1): CTCF Cells: K562 & Hism Shared transcription factors (2): CTCF, EZH2 Cells: K562 & Hisme Shared transcription factors (3): CTCF, EZH2, FOS, GATA2, CJUN, MAX Cells: K562 & Nha Shared transcription factors (1): CTCF Cells: K562 & Nha Shared transcription factors (1): CTCF Cells: K562 & Nha Shared transcription factors (1): CTCF Cells: K562 & NHEK Shared transcription factors (1): CTCF Cells: K562 & NHEK Shared transcription factors (1): CTCF Cells: K562 & Osteobl Shared transcription factors (1): CTCF Cells: K562 & Osteobl Shared transcription factors (1): CTCF Cells: K562 & Osteobl Shared transcription factors (1): TAFI, YYI Cells: K562 & ShNSHA Shared transcription factors (2): TAFI, YYI Cells: K562 & ShNSHRA Shared transcription factors (2): P300, YYI Cells: K562 & ShNSHRA Shared transcription factors (1): SNN3A Cells: K562 & ShNSHRA Shared transcription factors (1): P300 Cells: K562 & NB4 Shared transcription factors (1): P300 Cells: K562 & NB4 Shared transcription factors (1): P300 Cells: K562 & NB4 Shared transcription factors (1): P300 Cells: K562 & NB4 Cells: K562 & NB4 Shared transcription factors (1): P300 Cells: K562 & NB59 Shared transcription factors (1): TAFI Cells: K562 & NB59 Shared transcription factors (1): CTCF Cells: K562 & NB59 Shared transcription factors (1): CTCF Cells: K562 & MCF7 Shared transcription factors (1): CTCF Cells: K562 & MCF9 Shared transcription factors (1): CTCF Cells: K562 & MCF9 Shared transcription factors (1): CTCF Cells: K594 & HelaS3 Shared transcription factors (1): CTCF Cells: A549 & HelaS3 Shared transcription factors (1): CTCF Cells: A549 & Gm12878 Shared transcription factors (1): TAFI Cells: A549 & Gm12878 Shared transcription factors (1): TAFI Cells: A549 & Cm12878 Shared transcription factors (1): TAFI Cells: A549 & Cm12878 Shared transcription factors (1): TAFI Cells: A549 & Cm1289 Shared transcription factors (1): TAFI Cell	Cells: K562 & Dnd41	Shared transcription factors (2): CTCF, EZH2
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Cells: K562 & Hawe Cells: K562 & Nhue Shared transcription factors (1): CTCF, EZH2, FOS, GATA2, CJUN, MAX Shared transcription factors (1): CTCF Cells: K562 & Nhdfad Shared transcription factors (1): CTCF Cells: K562 & Nhdfad Shared transcription factors (1): CTCF Cells: K562 & NhtEK Shared transcription factors (1): CTCF Cells: K562 & NhtEF Shared transcription factors (1): CTCF Cells: K562 & Osteobl Shared transcription factors (1): CTCF Cells: K562 & Costeobl Shared transcription factors (1): CTCF Cells: K562 & Costeobl Shared transcription factors (1): YY1 Cells: K562 & Costeobl Shared transcription factors (1): YY1 Cells: K562 & Costeobl Shared transcription factors (1): YY1 Cells: K562 & Shared transcription factors (1): YY1 Cells: K562 & Shared transcription factors (1): Shared transcription factors (1): CTCF Cells: K562 & Shared transcription factors (1): P00 Cells: K562 & Shared transcription factors (1): P00 Cells: K562 & Shared transcription factors (1): P00 Cells: K562 & Shared transcription factors (1): TAFI Cells: K562 & McH0tes Shared transcription factors (1): YY1 Cells: K562 & Sharysy Shared transcription factors (1): CTCF Cells: K562 & Sharysy Shared transcription factors (1): CTCF Cells: K562 & Sharysy Shared transcription factors (1): CTCF Cells: K562 & MCF7 Shared transcription factors (1): CTCF Cells: K563 & MRP0 Shared transcription factors (1): CTCF Cells: A549 & Hlbesc Shared transcription factors (1): CTCF Cells: A549 & Hlbesc Shared transcription factors (1): CTCBPB Cells: A549 & Hlbesc Shared transcription factors (1): CTCBPB Cells: A549 & Hlbesc Shared transcription factors (1): CTBPB Cells: A549 & Hlbesc Shared transcription factors (1): CTBPB Cells: A549 & Hlbesc Shared transcription factors (1): CTCBPB Cells: A549 & Hlbesc Shared transcription factors (1): CTCBPB Cells: A549 & MRP0 Shared transcription factors (1): CTCBPB Cells: A549 & MRP0 Shared transcription factors (1): CTCF Cells: A549 & MRP0 Shared transcription fac	Cells: K562 & Gm12878	TAF1, TBP, YY1
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Cells: H1hesc & Nhdfad Shared transcription factors (1): CTCF	Cells: H1hesc & Huvec	Shared transcription factors (4): CTCF, FOS, CJUN, MAX
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Cells: H1hesc & Osteobl	Shared transcription factors (1): CTCF
Cells: H1hesc & Gm12892	Shared transcription factors (1): YY1
Cells: H1hesc & HCT116	Shared transcription factors (1): YY1
Cells: H1hesc & Panc1	Shared transcription factors (1): SIN3A
Cells: H1hesc & SkNSHRA	Shared transcription factors (1): YY1
Cells: H1hesc & NB4	Shared transcription factors (2): MAX, CMYC
Cells: H1hesc & Mcf10aes	Shared transcription factors (1): FOS
Cells: H1hesc & NT2D1	Shared transcription factors (1): YY1
Cells: H1hesc & MCF7	Shared transcription factors (1): CTCF
Cells: HeLaS3 & IMR90	Shared transcription factors (1): CEBPB
Cells: HeLaS3 & Dnd41	Shared transcription factors (2): CTCF, EZH2
Cells: HeLaS3 & Gm12878	Shared transcription factors (7): CTCF, FOS, GABP, JUND, MAX, P300, STAT3
Cells: HeLaS3 & Hmec	Shared transcription factors (1): CTCF
Cells: HeLaS3 & Hsmm	Shared transcription factors (2): CTCF, EZH2
Cells: HeLaS3 & Huvec	Shared transcription factors (6): CTCF, EZH2, FOS, CJUN, MAX, POL2B
Cells: HeLaS3 & Nha	Shared transcription factors (1): CTCF
Cells: HeLaS3 & Nhdfad	Shared transcription factors (1): CTCF
Cells: HeLaS3 & NHEK	Shared transcription factors (2): CTCF, POL2B
Cells: HeLaS3 & NHLF	Shared transcription factors (1): CTCF
Cells: HeLaS3 & Osteobl	Shared transcription factors (1): CTCF
Cells: HeLaS3 & SkNSHRA	Shared transcription factors (1): P300
Cells: HeLaS3 & T47D	Shared transcription factors (1): P300
Cells: HeLaS3 & NB4	Shared transcription factors (1): MAX
Cells: HeLaS3 & Mcf10aes	Shared transcription factors (2): FOS, STAT3
Cells: HeLaS3 & MCF7	Shared transcription factors (2): CTCF, HAE2F1
Cells: Dnd41 & Gm12878	Shared transcription factors (1): CTCF
Cells: Dnd41 & Hmec	Shared transcription factors (1): CTCF
Cells: Dnd41 & Hsmm	Shared transcription factors (2): CTCF, EZH2
Cells: Dnd41 & Huvec	Shared transcription factors (2): CTCF, EZH2
Cells: Dnd41 & Nha	Shared transcription factors (1): CTCF
Cells: Dnd41 & Nhdfad	Shared transcription factors (1): CTCF
Cells: Dnd41 & NHEK	Shared transcription factors (1): CTCF
Cells: Dnd41 & NHLF	Shared transcription factors (1): CTCF
Cells: Dnd41 & Osteobl	Shared transcription factors (1): CTCF
Cells: Dnd41 & MCF7	Shared transcription factors (1): CTCF
Cells: Gm12878 & Hmec	Shared transcription factors (1): CTCF
Cells: Gm12878 & Hsmm	Shared transcription factors (1): CTCF
Cells: Gm12878 & Huvec	Shared transcription factors (3): CTCF, FOS, MAX
Cells: Gm12878 & Nha	Shared transcription factors (1): CTCF
Cells: Gm12878 & Nhdfad	Shared transcription factors (1): CTCF
Cells: Gm12878 & NHEK	Shared transcription factors (1): CTCF
Cells: Gm12878 & NHLF	Shared transcription factors (1): CTCF

Cells: Gm12878 & Osteobl Cells: Gm12878 & Gm12891 Shared transcription factors (2): NFKB, PAX5 Cells: Gm12878 & Gm12892 Shared transcription factors (4): NFKB, PAX5, TAF1, YY1 Cells: Gm12878 & HCT116 Shared transcription factors (1): YY1 Cells: Gm12878 & SkNSHRA Shared transcription factors (2): P300, YY1 Cells: Gm12878 & T47D Shared transcription factors (1): P300 Cells: Gm12878 & Gm10847 Cells: Gm12878 & Gm10847 Cells: Gm12878 & ShNSH Shared transcription factors (1): NFKB Cells: Gm12878 & ShNSH Shared transcription factors (1): TAF1 Cells: Gm12878 & Gm18526 Shared transcription factors (1): NFKB Cells: Gm12878 & Gm18526 Cells: Gm12878 & Gm10899 Shared transcription factors (1): NFKB Cells: Gm12878 & Mcf10aes Shared transcription factors (1): NFKB Cells: Gm12878 & Mcf10aes Shared transcription factors (1): CTCF Cells: Gm12878 & MCF7 Shared transcription factors (1): CTCF Cells: Hmec & Hsmm Shared transcription factors (1): CTCF Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
Cells: Gm12878 & Gm12892 Shared transcription factors (4): NFKB, PAX5, TAF1, YY1 Cells: Gm12878 & SkNSHRA Shared transcription factors (1): YY1 Cells: Gm12878 & SkNSHRA Shared transcription factors (2): P300, YY1 Cells: Gm12878 & Gm10847 Shared transcription factors (1): NFKB Cells: Gm12878 & Gm10847 Shared transcription factors (1): NFKB Cells: Gm12878 & NB4 Shared transcription factors (2): MAX, CMYC Cells: Gm12878 & Gm10847 Shared transcription factors (1): NFKB Cells: Gm12878 & Gm18526 Shared transcription factors (1): NFKB Cells: Gm12878 & Gm18526 Shared transcription factors (1): NFKB Cells: Gm12878 & Mcf10aes Shared transcription factors (2): FOS, STAT3 Cells: Gm12878 & MCF1 Shared transcription factors (1): CTCF Cells: Hmee & Hsmm Shared transcription factors (1): CTCF Cells: Hmee & Nha Shared transcription factors (1): CTCF Cells: Hmee & Nha Shared transcription factors (1): CTCF Cells: Hmee & Nha Shared transcription factors (1): CTCF Cells: Hmee & NhEK Shared transcription factors (1): CTCF Cells: Hmee & NHEK Shared transcription factors (1): CTCF Cells: Hmee & NHEK Shared transcription factors (1): CTCF Cells: Hmee & NHLF Shared transcription factors (1): CTCF Cells: Hmee & NHLF Shared transcription factors (1): CTCF Cells: Hmee & Osteobl Shared transcription factors (1): CTCF Cells: Hmee & NHLF Shared transcription factors (1): CTCF Cells: Hmee & NHEK Shared transcription factors (1): CTCF Cells: Hmee & NHLF Shared transcription factors (1): CTCF Cells: Hmee & NHLF Shared transcription factors (1): CTCF Cells: Hmee & NHLF Shared transcription factors (1): CTCF
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Cells: Gm12878 & SkNSHRA Shared transcription factors (2): P300, YY1 Cells: Gm12878 & T47D Shared transcription factors (1): P300 Cells: Gm12878 & Gm10847 Shared transcription factors (1): NFKB Cells: Gm12878 & NB4 Shared transcription factors (2): MAX, CMYC Cells: Gm12878 & SkNSH Shared transcription factors (1): TAF1 Cells: Gm12878 & Gm18526 Shared transcription factors (1): NFKB Cells: Gm12878 & Gm19099 Shared transcription factors (1): NFKB Cells: Gm12878 & Mcf10aes Shared transcription factors (2): FOS, STAT3 Cells: Gm12878 & NT2D1 Shared transcription factors (1): CTCF Cells: Hmec & Hsmm Shared transcription factors (1): CTCF Cells: Hmec & Huvec Shared transcription factors (1): CTCF Cells: Hmec & Nha Shared transcription factors (1): CTCF Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
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Cells: Gm12878 & Gm19099 Shared transcription factors (1): NFKB Cells: Gm12878 & Mcf10aes Shared transcription factors (2): FOS, STAT3 Cells: Gm12878 & NT2D1 Shared transcription factors (1): YY1 Cells: Gm12878 & MCF7 Shared transcription factors (1): CTCF Cells: Hmec & Hsmm Shared transcription factors (1): CTCF Cells: Hmec & Huvec Shared transcription factors (1): CTCF Cells: Hmec & Nha Shared transcription factors (1): CTCF Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF
Cells: Gm12878 & Mcf10aes Shared transcription factors (2): FOS, STAT3 Cells: Gm12878 & NT2D1 Shared transcription factors (1): YY1 Cells: Gm12878 & MCF7 Shared transcription factors (1): CTCF Cells: Hmec & Hsmm Shared transcription factors (1): CTCF Cells: Hmec & Nha Shared transcription factors (1): CTCF Cells: Hmec & Nha Shared transcription factors (1): CTCF Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
Cells: Gm12878 & NT2D1 Shared transcription factors (1): YY1 Cells: Gm12878 & MCF7 Shared transcription factors (1): CTCF Cells: Hmec & Hsmm Shared transcription factors (1): CTCF Cells: Hmec & Huvec Shared transcription factors (1): CTCF Cells: Hmec & Nha Shared transcription factors (1): CTCF Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
Cells: Gm12878 & MCF7 Shared transcription factors (1): CTCF Cells: Hmec & Hsmm Shared transcription factors (1): CTCF Cells: Hmec & Huvec Shared transcription factors (1): CTCF Cells: Hmec & Nha Shared transcription factors (1): CTCF Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
Cells: Hmec & Hsmm Shared transcription factors (1): CTCF Cells: Hmec & Huvec Shared transcription factors (1): CTCF Cells: Hmec & Nha Shared transcription factors (1): CTCF Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF
Cells: Hmec & Huvec Shared transcription factors (1): CTCF Cells: Hmec & Nha Shared transcription factors (1): CTCF Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
Cells: Hmec & Nha Shared transcription factors (1): CTCF Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
Cells: Hmec & Nhdfad Shared transcription factors (1): CTCF Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
Cells: Hmec & NHEK Shared transcription factors (1): CTCF Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
Cells: Hmec & NHLF Shared transcription factors (1): CTCF Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
Cells: Hmec & Osteobl Shared transcription factors (1): CTCF Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
Cells: Hmec & MCF7 Shared transcription factors (1): CTCF
L VZ
Cells: Hsmm & Huvec Shared transcription factors (2): CTCF, EZH2
Cells: Hsmm & Nha Shared transcription factors (1): CTCF
Cells: Hsmm & Nhdfad Shared transcription factors (1): CTCF
Cells: Hsmm & NHEK Shared transcription factors (1): CTCF
Cells: Hsmm & NHLF Shared transcription factors (1): CTCF
Cells: Hsmm & Osteobl Shared transcription factors (1): CTCF
Cells: Hsmm & MCF7 Shared transcription factors (1): CTCF
Cells: Huvec & Nha Shared transcription factors (1): CTCF
Cells: Huvec & Nhdfad Shared transcription factors (1): CTCF
Cells: Huvec & NHEK Shared transcription factors (2): CTCF, POL2B
Cells: Huvec & NHLF Shared transcription factors (1): CTCF
Cells: Huvec & Osteobl Shared transcription factors (1): CTCF
Cells: Huvec & NB4 Shared transcription factors (1): MAX
Cells: Huvec & Mcf10aes Shared transcription factors (1): FOS
Cells: Huvec & Shsy5y Shared transcription factors (1): GATA2
Cells: Huvec & MCF7 Shared transcription factors (1): CTCF
Cells: Nha & Nhdfad Shared transcription factors (1): CTCF
Cells: Nha & NHEK Shared transcription factors (1): CTCF
Cells: Nha & NHLF Shared transcription factors (1): CTCF
Cells: Nha & Osteobl Shared transcription factors (1): CTCF
Cells: Nha & MCF7 Shared transcription factors (1): CTCF

Cells: Nhdfad & NHEK	Shared transcription factors (1): CTCF
Cells: Nhdfad & NHLF	Shared transcription factors (1): CTCF
Cells: Nhdfad & Osteobl	Shared transcription factors (1): CTCF
Cells: Nhdfad & MCF7	Shared transcription factors (1): CTCF
Cells: NHEK & NHLF	Shared transcription factors (1): CTCF
Cells: NHEK & Osteobl	Shared transcription factors (1): CTCF
Cells: NHEK & MCF7	Shared transcription factors (1): CTCF
Cells: NHLF & Osteobl	Shared transcription factors (1): CTCF
Cells: NHLF & MCF7	Shared transcription factors (1): CTCF
Cells: Osteobl & MCF7	Shared transcription factors (1): CTCF
Cells: Ecc1 & T47D	Shared transcription factors (1): FOXA1
Cells: Gm12891 & Gm12892	Shared transcription factors (2): NFKB, PAX5
Cells: Gm12891 & Gm10847	Shared transcription factors (1): NFKB
Cells: Gm12891 & Gm18526	Shared transcription factors (1): NFKB
Cells: Gm12891 & Gm19099	Shared transcription factors (1): NFKB
Cells: Gm12892 & HCT116	Shared transcription factors (1): YY1
Cells: Gm12892 & SkNSHRA	Shared transcription factors (1): YY1
Cells: Gm12892 & Gm10847	Shared transcription factors (1): NFKB
Cells: Gm12892 & SkNSH	Shared transcription factors (1): TAF1
Cells: Gm12892 & Gm18526	Shared transcription factors (1): NFKB
Cells: Gm12892 & Gm19099	Shared transcription factors (1): NFKB
Cells: Gm12892 & NT2D1	Shared transcription factors (1): YY1
Cells: HCT116 & SkNSHRA	Shared transcription factors (1): YY1
Cells: HCT116 & NT2D1	Shared transcription factors (1): YY1
Cells: SkNSHRA & T47D	Shared transcription factors (1): P300
Cells: SkNSHRA & NT2D1	Shared transcription factors (1): YY1
Cells: T47D & Shsy5y	Shared transcription factors (1): GATA3
Cells: T47D & MCF7	Shared transcription factors (1): GATA3
Cells: Gm10847 & Gm18526	Shared transcription factors (1): NFKB
Cells: Gm10847 & Gm19099	Shared transcription factors (1): NFKB
Cells: Gm18526 & Gm19099	Shared transcription factors (1): NFKB
Cells: Shsy5y & MCF7	Shared transcription factors (1): GATA3

Table S7. The predicted results of Baseline model MLSNet on 165 ChIP-seq datasets.

Datasets	ACC	ROC-AUC	PR-AUC
wgEncodeAwgTfbsBroadDnd41CtcfUniPk	0.931383	0.978935	0.981499
wg Encode Awg Tfbs Broad Dnd 41 Ezh 239875 UniPk	0.684054	0.763665	0.777782
wg Encode Awg Tfbs Broad Gm 12878 Ctcf UniPk	0.919005	0.967925	0.97387
wg Encode Awg Tfbs Broad H1 hesc Ctc f UniPk	0.935915	0.979972	0.981384
wg Encode Awg Tfbs Broad Helas 3 Ctcf UniPk	0.898929	0.958678	0.966446
wg Encode Awg Tfbs Broad Helas 3 Ezh 239875 UniPk	0.669014	0.718492	0.714489
wg Encode Awg Tfbs Broad Helas 3 Pol 2b Uni Pk	0.658577	0.733351	0.726391
wg Encode Awg Tfbs Broad Hepg 2 Ctcf UniPk	0.938834	0.979465	0.98238
wg Encode Awg Tfbs Broad Hepg 2 Ezh 239875 UniPk	0.692131	0.758046	0.731459
wg Encode Awg Tfbs Broad Hmec Ctc fUniPk	0.948029	0.984691	0.98702
wg Encode Awg Tfbs Broad Hsmm Ctcf UniPk	0.939727	0.981969	0.983883
wg Encode Awg Tfbs Broad Hsmm Ezh 239875 UniPk	0.668831	0.72786	0.691017
wg Encode Awg Tfbs Broad Hsmmt Ctcf UniPk	0.923772	0.971531	0.976061
wg Encode Awg Tfbs Broad Huvec Ctcf UniPk	0.934462	0.978041	0.981534
wg Encode Awg Tfbs Broad Huvec Ezh 239875 UniPk	0.723204	0.792442	0.788499
wg Encode Awg Tfbs Broad Huvec Pol 2b Uni Pk	0.684741	0.754966	0.739432
wg Encode Awg Tfbs Broad K 562 Ctc f UniPk	0.883263	0.948445	0.958535
wg Encode Awg Tfbs Broad K 562 Ezh 239875 UniPk	0.659226	0.692076	0.640563
wg Encode Awg Tfbs Broad K 562 H dac 2a 300 705 a Uni Pk	0.690363	0.770552	0.769026
wg Encode Awg Tfbs Broad K 562 H dac 6a 30 1341 a Uni Pk	0.626966	0.683827	0.696264
wg Encode Awg Tfbs Broad Nha Ctcf UniPk	0.93087	0.976827	0.980711
wg Encode Awg Tfbs Broad Nhdf ad Ctcf UniPk	0.933608	0.979407	0.982107
wg Encode Awg Tfbs Broad Nhek Ctcf UniPk	0.922035	0.971363	0.976117
wg Encode Awg Tfbs Broad Nhek Pol 2b Uni Pk	0.661804	0.727633	0.731647
wg Encode Awg Tfbs Broad Nhlf Ctcf UniPk	0.92403	0.973042	0.977121
wg Encode Awg Tfbs Broad Osteobl Ctc f UniPk	0.907048	0.961431	0.968994
wg Encode Awg Tfbs Haib A549 Elf 1V0422111 Etoh 02 UniPk	0.801366	0.884143	0.895746
wg Encode Awg Tfbs Haib A549 Fosl 2V0422111 Etoh 02 UniPk	0.882195	0.946655	0.953464
wg Encode Awg Tfbs Haib A549 Fox a 1V0416102 Dex 100 nm UniPk	0.836762	0.91422	0.917299
wgEncodeAwgTfbsHaibA549GabpV0422111Etoh02UniPk	0.805634	0.881963	0.889299
wg Encode Awg Tfbs Haib A549 Sin 3ak 20V 0422111 Etoh 02 Uni Pk	0.701681	0.766675	0.781758
wgEncodeAwgTfbsHaibA549Taf1V0422111Etoh02UniPk	0.706857	0.775306	0.779464
wg Encode Awg Tfbs Haib Ecc 1 Fox alsc 6553 V 0416102 Dm 002 p1h UniPk	0.854373	0.920472	0.92928
wgEncodeAwgTfbsHaibGm12878Elf1sc631V0416101UniPk	0.806209	0.891855	0.898718
wgEncodeAwgTfbsHaibGm12878GabpPcr2xUniPk	0.834313	0.910046	0.921586
wgEncodeAwgTfbsHaibGm12878P300Pcr1xUniPk	0.770109	0.850329	0.858236
wgEncodeAwgTfbsHaibGm12878Pax5c20Pcr1xUniPk	0.832246	0.909798	0.914445

wgEncodeAwgTfbsHaibGm12878Pax5n19Pcr1xUniPk	0.808099	0.88815	0.896811
wgEncodeAwgTfbsHaibGm12878Taf1Pcr1xUniPk	0.744128	0.832202	0.835027
wgEncodeAwgTfbsHaibGm12878Yy1sc281Pcr1xUniPk	0.834746	0.915139	0.926646
wgEncodeAwgTfbsHaibGm12891Pax5c20V0416101UniPk	0.807229	0.896443	0.90654
wgEncodeAwgTfbsHaibGm12892Pax5c20V0416101UniPk	0.765963	0.848828	0.861437
wgEncodeAwgTfbsHaibGm12892Taf1V0416102UniPk	0.743097	0.823011	0.836808
wgEncodeAwgTfbsHaibGm12892Yy1V0416101UniPk	0.836537	0.912981	0.922372
wgEncodeAwgTfbsHaibH1hescFosl1sc183V0416102UniPk	0.770455	0.843833	0.85889
wgEncodeAwgTfbsHaibH1hescGabpPcr1xUniPk	0.81802	0.898473	0.908975
wgEncodeAwgTfbsHaibH1hescHdac2sc6296V0416102UniPk	0.758374	0.843766	0.847192
wgEncodeAwgTfbsHaibH1hescSp1Pcr1xUniPk	0.787043	0.871835	0.884026
wgEncodeAwgTfbsHaibH1hescSp2V0422111UniPk	0.834029	0.911317	0.927223
wgEncodeAwgTfbsHaibH1hescSrfPcr1xUniPk	0.857214	0.934828	0.944412
wgEncodeAwgTfbsHaibH1hescTead4sc101184V0422111UniPk	0.900884	0.960806	0.964175
wgEncodeAwgTfbsHaibH1hescYy1sc281V0416102UniPk	0.841936	0.921276	0.928696
wgEncodeAwgTfbsHaibHct116Yy1sc281V0416101UniPk	0.828178	0.908509	0.918338
wgEncodeAwgTfbsHaibHelas3GabpPcr1xUniPk	0.851753	0.930709	0.940412
wgEncodeAwgTfbsHaibHepg2Cebpbsc150V0416101UniPk	0.925453	0.975556	0.975155
wgEncodeAwgTfbsHaibHepg2Elf1sc631V0416101UniPk	0.870603	0.939161	0.941903
wgEncodeAwgTfbsHaibHepg2Fosl2V0416101UniPk	0.861794	0.933547	0.940625
wgEncodeAwgTfbsHaibHepg2Foxa1sc101058V0416101UniPk	0.891461	0.95675	0.958348
wgEncodeAwgTfbsHaibHepg2Foxa1sc6553V0416101UniPk	0.896191	0.961496	0.962664
wgEncodeAwgTfbsHaibHepg2GabpPcr2xUniPk	0.82943	0.907914	0.913619
wgEncodeAwgTfbsHaibHepg2Hdac2sc6296V0416101UniPk	0.810767	0.893342	0.898611
wgEncodeAwgTfbsHaibHepg2JundPcr1xUniPk	0.842901	0.920085	0.928811
wgEncodeAwgTfbsHaibHepg2P300V0416101UniPk	0.839722	0.920391	0.920613
wgEncodeAwgTfbsHaibHepg2Sin3ak20Pcr1xUniPk	0.741133	0.821614	0.825352
wgEncodeAwgTfbsHaibHepg2Sp1Pcr1xUniPk	0.826992	0.908769	0.915159
wgEncodeAwgTfbsHaibHepg2Sp2V0422111UniPk	0.884393	0.93792	0.951629
wgEncodeAwgTfbsHaibHepg2SrfV0416101UniPk	0.84766	0.917703	0.926138
wgEncodeAwgTfbsHaibHepg2Taf1Pcr2xUniPk	0.741447	0.825202	0.82891
wgEncodeAwgTfbsHaibHepg2Tead4sc101184V0422111UniPk	0.822602	0.899445	0.906996
wgEncodeAwgTfbsHaibHepg2Yy1sc281V0416101UniPk	0.799742	0.884955	0.890597
wgEncodeAwgTfbsHaibK562Cebpbsc150V0422111UniPk	0.88926	0.952391	0.955761
wgEncodeAwgTfbsHaibK562Elf1sc631V0416102UniPk	0.881209	0.948885	0.950052
wgEncodeAwgTfbsHaibK562Fosl1sc183V0416101UniPk	0.918279	0.96787	0.973419
wgEncodeAwgTfbsHaibK562GabpV0416101UniPk	0.8392	0.910302	0.918737
wgEncodeAwgTfbsHaibK562Gata2sc267Pcr1xUniPk	0.879271	0.949102	0.950084
wgEncodeAwgTfbsHaibK562Hdac2sc6296V0416102UniPk	0.76926	0.857183	0.862063
wgEncodeAwgTfbsHaibK562MaxV0416102UniPk	0.808474	0.891237	0.899345
wgEncodeAwgTfbsHaibK562Sin3ak20V0416101UniPk	0.754351	0.835194	0.843336
wgEncodeAwgTfbsHaibK562SrfV0416101UniPk	0.807983	0.893244	0.907457
wgEncodeAwgTfbsHaibK562Taf1V0416101UniPk	0.757255	0.842193	0.849593
wgEncodeAwgTfbsHaibK562Tead4sc101184V0422111UniPk	0.83314	0.911957	0.916261

wgEncodeAwgTfbsHaibK562Yy1V0416101UniPk	0.822633	0.904474	0.909564
wgEncodeAwgTfbsHaibK562Yy1V0416102UniPk	0.833226	0.911497	0.920185
wgEncodeAwgTfbsHaibPanc1Sin3ak20V0416101UniPk	0.716259	0.784473	0.777016
wg Encode Awg Tfbs Haib Sknshra P300 V0416102 Uni Pk	0.813923	0.894883	0.898154
wgEncodeAwgTfbsHaibSknshraYy1sc281V0416102UniPk	0.809532	0.893332	0.90613
wg Encode Awg Tfbs Haib Sknsh Taf 1V0416101 UniPk	0.761957	0.846508	0.848549
wg Encode Awg Tfbs Haib T47d Foxa1sc 6553 V0416102 Dm002 p1h UniPk	0.883727	0.952107	0.954791
wg Encode Awg Tfbs Haib T47d Gata 3sc 268 V0416102 Dm002 p1h UniPk	0.843626	0.920193	0.925541
wg Encode Awg Tfbs Haib T47d P300 V0416102 Dm002 p1h UniPk	0.786638	0.86937	0.878348
wgEncodeAwgTfbsSydhA549CebpbIggrabUniPk	0.936854	0.981587	0.98178
wg Encode Awg Tfbs Sydh Gm 10847 Nfkb Tnfa Iggrab Uni Pk	0.792136	0.874644	0.891187
wgEncodeAwgTfbsSydhGm12878CfosUniPk	0.904817	0.95916	0.96366
wgEncodeAwgTfbsSydhGm12878JundUniPk	0.883984	0.947757	0.94863
wg Encode Awg Tfbs Sydh Gm 12878 Max Iggmus Uni Pk	0.751874	0.830228	0.836492
wg Encode Awg Tfbs Sydh Gm 12878 Nfkb Tnfa Iggrab Uni Pk	0.808868	0.887945	0.899284
wgEncodeAwgTfbsSydhGm12878P300bUniPk	0.836701	0.917869	0.921895
wg Encode Awg Tfbs Sydh Gm 12878 Stat 3 Iggmus UniPk	0.699647	0.768726	0.768187
wg Encode Awg Tfbs Sydh Gm 12878 Tbp Iggmus Uni Pk	0.718213	0.797681	0.79992
wg Encode Awg Tfbs Sydh Gm 12891 Nfkb Tnfa Iggrab Uni Pk	0.811423	0.894198	0.904253
wg Encode Awg Tfbs Sydh Gm 12892 Nfkb Tnfa Iggrab Uni Pk	0.807585	0.889827	0.899876
wg Encode Awg Tfbs Sydh Gm 18526 Nfkb Tnfa Iggrab UniPk	0.77529	0.868841	0.886885
wg Encode Awg Tfbs Sydh Gm 19099 Nfkb Tnfa Iggrab Uni Pk	0.83727	0.915208	0.922405
wg Encode Awg Tfbs Sydh H1 hesc Cebpb Iggrab Uni Pk	0.940994	0.980968	0.981415
wg Encode Awg Tfbs Sydh H1 hesc Ctbp 2 Ucd UniPk	0.714744	0.786515	0.779844
wg Encode Awg Tfbs Sydh H1 hesc Jund Iggrab Uni Pk	0.850866	0.922618	0.931695
wg Encode Awg Tfbs Sydh H1 hesc Max Ucd UniPk	0.831625	0.912096	0.923262
wg Encode Awg Tfbs Sydh H1 hesc Sin 3anb 6001263 Iggrab Uni Pk	0.764273	0.843652	0.854328
wg Encode Awg Tfbs Sydh Helas 3 Cebpb Ig grab Uni Pk	0.890111	0.955572	0.957035
wg Encode Awg Tfbs Sydh Helas 3C fos UniPk	0.906181	0.958632	0.962822
wg Encode Awg Tfbs Sydh Helas 3 Cjun Iggrab Uni Pk	0.889006	0.948849	0.954519
wg Encode Awg Tfbs Sydh Helas 3 Hae 2f1 UniPk	0.7994	0.882538	0.881846
wg Encode Awg Tfbs Sydh Helas 3 Jund Iggrab UniPk	0.900333	0.962108	0.96595
wg Encode Awg Tfbs Sydh Helas 3 Max Iggrab UniPk	0.793214	0.877546	0.883539
wg Encode Awg Tfbs Sydh Helas 3P300sc584sc584 Iggrab UniPk	0.843235	0.922123	0.925146
wg Encode Awg Tfbs Sydh Helas 3 Stat 3 Iggrab Uni Pk	0.806344	0.888229	0.900157
wg Encode Awg Tfbs Sydh Hepg 2 Cebpb Forskln UniPk	0.906121	0.965568	0.966741
wg Encode Awg Tfbs Sydh Hepg 2 Cebpb Iggrab UniPk	0.944522	0.985682	0.984664
wg Encode Awg Tfbs Sydh Hepg 2 Cjun Iggrab Uni Pk	0.920758	0.974116	0.977406
wg Encode Awg Tfbs Sydh Hepg 2 Corestsc 30189 Iggrab Uni Pk	0.728041	0.804817	0.812041
wgEncodeAwgTfbsSydhHepg2JundIggrabUniPk	0.937657	0.980928	0.982658
wgEncodeAwgTfbsSydhHepg2MaxIggrabUniPk	0.788453	0.875346	0.883789
wgEncodeAwgTfbsSydhHepg2TbpIggrabUniPk	0.740707	0.816423	0.819975
wgEncodeAwgTfbsSydhHuvecCfosUcdUniPk	0.890412	0.953708	0.958956
wgEncodeAwgTfbsSydhHuvecCjunUniPk	0.9158	0.969384	0.970294

wgEncodeAwgTfbsSydhHuvecGata2UcdUniPk	0.816699	0.894341	0.902744
wg Encode Awg Tfbs Sydh Huvec Max UniPk	0.854843	0.931578	0.938125
wg Encode Awg Tfbs Sydh Imr 90 Cebpb Iggrab Uni Pk	0.921212	0.974108	0.97376
wgEncodeAwgTfbsSydhK562CebpbIggrabUniPk	0.933528	0.978588	0.978788
wgEncodeAwgTfbsSydhK562CfosUniPk	0.929813	0.976659	0.977674
wgEncodeAwgTfbsSydhK562CjunUniPk	0.911278	0.964107	0.966948
wg Encode Awg Tfbs Sydh K 562 Corestsc 30189 Iggrab UniPk	0.831068	0.90996	0.915279
wgEncodeAwgTfbsSydhK562Gata2UcdUniPk	0.865962	0.932108	0.935383
wgEncodeAwgTfbsSydhK562JundIggrabUniPk	0.874307	0.945385	0.95086
wg Encode Awg Tfbs Sydh K562 Max Iggrab Uni Pk	0.810304	0.892472	0.899479
wg Encode Awg Tfbs Sydh K 562 P300 Iggrab Uni Pk	0.841496	0.917289	0.923006
wg Encode Awg Tfbs Sydh K562 Tbp Igg mus Uni Pk	0.761445	0.842508	0.856971
wgEncodeAwgTfbsSydhK562Yy1UcdUniPk	0.906283	0.961118	0.968112
wg Encode Awg Tfbs Sydh Mcf10 aes Cfos Tam 112 h Hvd UniPk	0.920601	0.973563	0.972678
wg Encode Awg Tfbs Sydh Mcf 10 aes Cfos Tam 14h Hvd UniPk	0.914618	0.970603	0.969884
$wg Encode Awg Tfbs Sydh Mcf \\ 10 aes Cfos Tam Hvd UniPk$	0.924682	0.975335	0.975009
wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Etoh 01 b UniPk	0.885815	0.956421	0.958414
wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Etoh 01c UniPk	0.893417	0.958347	0.959764
wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Etoh 01 UniPk	0.866047	0.941835	0.944056
wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Tam 112 h Hvd UniPk	0.892914	0.957136	0.957279
wg Encode Awg Tfbs Sydh Mcf 10 aes Stat 3 Tam UniPk	0.896604	0.960399	0.961494
wg Encode Awg Tfbs Sydh Mcf7 Gata 3 Ucd UniPk	0.742178	0.813795	0.822749
wg Encode Awg Tfbs Sydh Mcf7 Hae 2f1 Ucd Uni Pk	0.746092	0.824242	0.822316
wg Encode Awg Tfbs Sydh Nb4 Cmyc UniPk	0.798022	0.881542	0.892365
wg Encode Awg Tfbs Sydh Nb4 Max Uni Pk	0.820647	0.904675	0.913223
wg Encode Awg Tfbs Sydh Nt 2d1 Yy1 Ucd Uni Pk	0.884306	0.948301	0.959181
wg Encode Awg Tfbs Sydh Shsy 5y Gata 2 Ucd UniPk	0.843535	0.919913	0.926432
wg Encode Awg Tfbs Sydh Shsy 5y Gata 3sc 269 sc 269 Ucd UniPk	0.809875	0.891084	0.899551
wg Encode Awg Tfbs Uchicago K 562 Efos UniPk	0.921588	0.970935	0.97494
wgEncodeAwgTfbsUchicagoK562Egata2UniPk	0.776322	0.852574	0.86101
wg Encode Awg Tfbs Uchicago K 562 Ehdac 8 UniPk	0.606725	0.66428	0.655445
wgEncodeAwgTfbsUchicagoK562EjundUniPk	0.836924	0.914314	0.923331
wgEncodeAwgTfbsUtaGm12878CmycUniPk	0.717421	0.802359	0.797928
wgEncodeAwgTfbsUtaGm12878CtcfUniPk	0.946727	0.986632	0.987452
wg Encode Awg Tfbs UtaH1 hesc Cmyc UniPk	0.589691	0.637882	0.633928
wg Encode Awg Tfbs UtaH1 hesc Ctc f UniPk	0.936335	0.981175	0.981722
wg Encode Awg Tfbs Uta Helas 3 Ctc f UniPk	0.953479	0.988409	0.988162
wg Encode Awg Tfbs Uta Hepg 2 Cmyc Uni Pk	0.783352	0.862151	0.865412
wg Encode Awg Tfbs Uta K562 Ctcf UniPk	0.953276	0.989175	0.989909
wg Encode Awg Tfbs Uta Mcf7Ctcf UniPk	0.913517	0.968951	0.971436
Average	0.830613	0.8999187	0.903489

Table S8. The predicted results of TEMNet model on 165 ChIP-seq datasets.

Datasets	ACC	ROC-AUC	PR-AUC
wgEncodeAwgTfbsBroadDnd41CtcfUniPk	0.938244854	0.979842319	0.982335791
wg Encode Awg Tfbs Broad Dnd 41 Ezh 239875 UniPk	0.681073025	0.722616633	0.746194129
wgEncodeAwgTfbsBroadGm12878CtcfUniPk	0.919811049	0.969662639	0.974733854
wg Encode Awg Tfbs Broad H1 hesc Ctcf UniPk	0.940296193	0.982077631	0.983176469
wg Encode Awg Tfbs Broad Helas 3 Ctc f UniPk	0.903420027	0.959800309	0.966564838
wg Encode Awg Tfbs Broad Helas 3Ezh 239875 UniPk	0.629577465	0.666507645	0.688002994
wg Encode Awg Tfbs Broad Helas 3Pol 2b UniPk	0.665271967	0.715565877	0.711253279
wg Encode Awg Tfbs Broad Hepg 2 Ctc f UniPk	0.943147882	0.981135725	0.983318456
wg Encode Awg Tfbs Broad Hepg 2 Ezh 239875 UniPk	0.685255921	0.742636039	0.730988837
wg Encode Awg Tfbs Broad Hmec Ctc fUniPk	0.949906155	0.985958169	0.988300017
wg Encode Awg Tfbs Broad Hsmm Ctc f UniPk	0.935475709	0.981190542	0.982556603
wg Encode Awg Tfbs Broad Hsmm Ezh 239875 UniPk	0.652597403	0.681822496	0.656390764
wgEncodeAwgTfbsBroadHsmmtCtcfUniPk	0.926298248	0.973834378	0.977712438
wg Encode Awg Tfbs Broad Huvec Ctc f UniPk	0.938042131	0.979479829	0.982917867
wg Encode Awg Tfbs Broad Huvec Ezh 239875 UniPk	0.704946996	0.781104674	0.777258146
wg Encode Awg Tfbs Broad Huvec Pol 2b UniPk	0.690019194	0.759606915	0.748357153
wgEncodeAwgTfbsBroadK562CtcfUniPk	0.890823178	0.950091544	0.960465874
wg Encode Awg Tfbs Broad K562 Ezh 239875 UniPk	0.626488095	0.643402778	0.647234878
wg Encode Awg Tfbs Broad K562 H dac 2a 300705 a UniPk	0.703244275	0.760920495	0.75393973
wg Encode Awg Tfbs Broad K562 Hdac 6a 30 1341 a UniPk	0.660674157	0.69280055	0.695007795
wgEncodeAwgTfbsBroadNhaCtcfUniPk	0.942134907	0.979063232	0.981840439
wgEncodeAwgTfbsBroadNhdfadCtcfUniPk	0.939988398	0.981760928	0.983565755
wgEncodeAwgTfbsBroadNhekCtcfUniPk	0.924008992	0.970954965	0.97454672
wg Encode Awg Tfbs Broad Nhek Pol 2b Uni Pk	0.669761273	0.726115461	0.721226787
wg Encode Awg Tfbs Broad Nhlf Ctcf UniPk	0.92905119	0.973058447	0.976488231
wgEncodeAwgTfbsBroadOsteoblCtcfUniPk	0.913408859	0.967749584	0.974038944
wgEncodeAwgTfbsHaibA549Elf1V0422111Etoh02UniPk	0.814726841	0.886791208	0.899212849
wg Encode Awg Tfbs Haib A549 Fosl 2V0422111 Etoh 02 UniPk	0.891759028	0.956239425	0.962500211
wg Encode Awg Tfbs Haib A549 Fox a 1V0416102 Dex 100 nm UniPk	0.844061048	0.916477337	0.921560229
wg Encode Awg Tfbs Haib A549 Gabp V0422111 Etoh 02 UniPk	0.814588338	0.886954505	0.899662
wg Encode Awg Tfbs Haib A549 Sin 3ak 20V0422111 Etoh 02 UniPk	0.697478992	0.759389316	0.760396318
wg Encode Awg Tfbs Haib A549 Taf1 V 0422111 Etoh02 UniPk	0.711700229	0.792604006	0.798883826
wg Encode Awg Tfbs Haib Ecc 1 Fox a 1sc 6553V0416102Dm002p1hUniPk	0.853511417	0.919626047	0.926584589
wg Encode Awg Tfbs Haib Gm 12878 Elf 1sc 631V0416101 UniPk	0.818202197	0.898459199	0.904723084
wg Encode Awg Tfbs Haib Gm 12878 Gabp Pcr 2x UniPk	0.845671759	0.923768236	0.930935823
wgEncodeAwgTfbsHaibGm12878P300Pcr1xUniPk	0.77408143	0.849189091	0.853291204
wgEncodeAwgTfbsHaibGm12878Pax5c20Pcr1xUniPk	0.832245758	0.910788971	0.913293374
wgEncodeAwgTfbsHaibGm12878Pax5n19Pcr1xUniPk	0.810033531	0.891573538	0.899264774
wg Encode Awg Tfbs Haib Gm 12878 Taf 1 Pcr 1x Uni Pk	0.769948001	0.851413179	0.858930624

wgEncodeAwgTfbsHaibGm12878Yy1sc281Pcr1xUniPk	0.847374543	0.924277509	0.934971554
wgEncodeAwgTfbsHaibGm12891Pax5c20V0416101UniPk	0.781526104	0.866349206	0.876257766
wgEncodeAwgTfbsHaibGm12892Pax5c20V0416101UniPk	0.76154224	0.845505731	0.854979189
wgEncodeAwgTfbsHaibGm12892Taf1V0416102UniPk	0.760422306	0.841000363	0.851884797
wgEncodeAwgTfbsHaibGm12892Yy1V0416101UniPk	0.841705702	0.921612252	0.931035484
wgEncodeAwgTfbsHaibH1hescFosl1sc183V0416102UniPk	0.752272727	0.816695602	0.827300771
wgEncodeAwgTfbsHaibH1hescGabpPcr1xUniPk	0.820695807	0.89675435	0.906234575
wgEncodeAwgTfbsHaibH1hescHdac2sc6296V0416102UniPk	0.762840554	0.843671704	0.842844906
wgEncodeAwgTfbsHaibH1hescSp1Pcr1xUniPk	0.793978349	0.880811423	0.88921095
wgEncodeAwgTfbsHaibH1hescSp2V0422111UniPk	0.838204593	0.908996213	0.92425261
wg Encode Awg Tfbs Haib H1 hesc Srf Pcr1x UniPk	0.863205192	0.934748103	0.944334227
wg Encode Awg Tfbs Haib H1 hesc Tead 4 sc 101184 V0422111 UniPk	0.897682162	0.958290521	0.960731624
wg Encode Awg Tfbs Haib H1 hesc Yy 1sc 281 V 041 610 2 UniPk	0.850027902	0.928450639	0.934750261
wgEncodeAwgTfbsHaibHct116Yy1sc281V0416101UniPk	0.83675913	0.910365466	0.919715015
wg Encode Awg Tfbs Haib Helas 3 Gabp Pcr 1x UniPk	0.86242378	0.930268528	0.939332485
wgEncodeAwgTfbsHaibHepg2Cebpbsc150V0416101UniPk	0.930787589	0.978947636	0.978739592
wgEncodeAwgTfbsHaibHepg2Elf1sc631V0416101UniPk	0.867777935	0.937968946	0.941470744
wgEncodeAwgTfbsHaibHepg2Fosl2V0416101UniPk	0.866935484	0.937104114	0.943224547
wgEncodeAwgTfbsHaibHepg2Foxa1sc101058V0416101UniPk	0.899928944	0.961409911	0.961920987
wgEncodeAwgTfbsHaibHepg2Foxa1sc6553V0416101UniPk	0.905065816	0.963882601	0.964745418
wgEncodeAwgTfbsHaibHepg2GabpPcr2xUniPk	0.829175153	0.904262725	0.910500008
wg Encode Awg Tfbs Haib Hepg 2H dac 2sc 6296 V0416101 UniPk	0.817195661	0.897438227	0.902667737
wgEncodeAwgTfbsHaibHepg2JundPcr1xUniPk	0.848172446	0.927091166	0.934683421
wgEncodeAwgTfbsHaibHepg2P300V0416101UniPk	0.854450645	0.930327681	0.931638099
wgEncodeAwgTfbsHaibHepg2Sin3ak20Pcr1xUniPk	0.761860894	0.839849356	0.846064579
wgEncodeAwgTfbsHaibHepg2Sp1Pcr1xUniPk	0.84020825	0.917129821	0.923991026
wg Encode Awg Tfbs Haib Hepg 2Sp 2V 0422111 UniPk	0.88150289	0.937069222	0.94706665
wgEncodeAwgTfbsHaibHepg2SrfV0416101UniPk	0.842406877	0.915098274	0.923762458
wgEncodeAwgTfbsHaibHepg2Taf1Pcr2xUniPk	0.754374901	0.837108994	0.839211399
wg Encode Awg Tfbs Haib Hepg 2 Tead 4 sc 101184 V 0422111 UniPk	0.833836351	0.909497626	0.915469472
wgEncodeAwgTfbsHaibHepg2Yy1sc281V0416101UniPk	0.803320928	0.884208974	0.88701783
wgEncodeAwgTfbsHaibK562Cebpbsc150V0422111UniPk	0.896051571	0.958575176	0.962408701
wgEncodeAwgTfbsHaibK562Elf1sc631V0416102UniPk	0.887291494	0.951840055	0.952257349
wgEncodeAwgTfbsHaibK562Fosl1sc183V0416101UniPk	0.918506715	0.96987412	0.975481957
wgEncodeAwgTfbsHaibK562GabpV0416101UniPk	0.848132928	0.920227244	0.925782509
wg Encode Awg Tfbs Haib K 562 Gata 2sc 267 Pcr 1x UniPk	0.888844569	0.954513819	0.954771589
wgEncodeAwgTfbsHaibK562Hdac2sc6296V0416102UniPk	0.775711575	0.857067044	0.858203341
wgEncodeAwgTfbsHaibK562MaxV0416102UniPk	0.827381969	0.906165435	0.914786173
wgEncodeAwgTfbsHaibK562Sin3ak20V0416101UniPk	0.774954991	0.857435944	0.859621808
wgEncodeAwgTfbsHaibK562SrfV0416101UniPk	0.81175836	0.886690997	0.901108556
wgEncodeAwgTfbsHaibK562Taf1V0416101UniPk	0.771423694	0.852644227	0.858182722
wgEncodeAwgTfbsHaibK562Tead4sc101184V0422111UniPk	0.843889532	0.921291035	0.924808906
wgEncodeAwgTfbsHaibK562Yy1V0416101UniPk	0.831369362	0.907280706	0.910400954
wgEncodeAwgTfbsHaibK562Yy1V0416102UniPk	0.841377091	0.917944367	0.925745083

wgEncodeAwgTfbsHaibPanc1Sin3ak20V0416101UniPk	0.720864329	0.798366748	0.791917771
wgEncodeAwgTfbsHaibSknshraP300V0416102UniPk	0.817972855	0.899633282	0.903155547
wgEncodeAwgTfbsHaibSknshraYy1sc281V0416102UniPk	0.823616115	0.902178518	0.910701885
wgEncodeAwgTfbsHaibSknshTaf1V0416101UniPk	0.770719241	0.858029203	0.855898054
wgEncodeAwgTfbsHaibT47dFoxa1sc6553V0416102Dm002p1hUniPk	0.887404229	0.953981541	0.955508057
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wgEncodeAwgTfbsSydhGm12878CfosUniPk	0.916284404	0.969211505	0.973951486
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wgEncodeAwgTfbsSydhGm12878MaxIggmusUniPk	0.750658295	0.84024984	0.848607631
wgEncodeAwgTfbsSydhGm12878NfkbTnfaIggrabUniPk	0.823547034	0.90496498	0.913296038
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wgEncodeAwgTfbsSydhGm12878Stat3IggmusUniPk	0.7133883	0.77975816	0.762465385
wgEncodeAwgTfbsSydhGm12878TbpIggmusUniPk	0.726804124	0.80803631	0.808148451
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wgEncodeAwgTfbsSydhH1hescCtbp2UcdUniPk	0.727564103	0.797981325	0.795698623
wgEncodeAwgTfbsSydhH1hescJundIggrabUniPk	0.853528628	0.92416513	0.930827272
wgEncodeAwgTfbsSydhH1hescMaxUcdUniPk	0.835725678	0.914782654	0.9252514
wg Encode Awg Tfbs Sydh H1 hesc Sin 3 anb 6001263 Iggrab Uni Pk	0.774005935	0.853333109	0.862854182
wgEncodeAwgTfbsSydhHelas3CebpbIggrabUniPk	0.89908953	0.962117286	0.962821607
wg Encode Awg Tfbs Sydh Helas 3 C fos UniPk	0.908664459	0.961285775	0.964413256
wg Encode Awg Tfbs Sydh Helas 3 Cjun Iggrab Uni Pk	0.895006218	0.963698952	0.966689938
wg Encode Awg Tfbs Sydh Helas 3 Hae 2f1 UniPk	0.804902451	0.887083249	0.885005964
wg Encode Awg Tfbs Sydh Helas 3 Jund Iggrab Uni Pk	0.909275669	0.96426356	0.968008247
wg Encode Awg Tfbs Sydh Helas 3 Max Iggrab UniPk	0.799532589	0.882533307	0.888705136
wg Encode Awg Tfbs Sydh Helas 3P300sc 584sc 584 Iggrab UniPk	0.862904828	0.932760726	0.935303541
wg Encode Awg Tfbs Sydh Helas 3 Stat 3 Iggrab Uni Pk	0.832313114	0.906535079	0.915614615
wg Encode Awg Tfbs Sydh Hepg 2 Cebpb Forskln UniPk	0.909842845	0.967388693	0.969461768
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wgEncodeAwgTfbsSydhHepg2CjunIggrabUniPk	0.931337325	0.977064453	0.980014141
wg Encode Awg Tfbs Sydh Hepg 2 Corestsc 30189 Iggrab UniPk	0.723950211	0.792063288	0.790943713
wg Encode Awg Tfbs Sydh Hepg 2 Jund Iggrab Uni Pk	0.942610063	0.980936423	0.982734822
wg Encode Awg Tfbs Sydh Hepg 2 Max Iggrab UniPk	0.804644227	0.886499743	0.896870929
wg Encode Awg Tfbs Sydh Hepg 2Tbp Iggrab UniPk	0.745675377	0.830294142	0.833558922
wgEncodeAwgTfbsSydhHuvecCfosUcdUniPk	0.904007456	0.962739697	0.966301137
wgEncodeAwgTfbsSydhHuvecCjunUniPk	0.920915713	0.973255375	0.974752553
wg Encode Awg Tfbs Sydh Huvec Gata 2 Ucd UniPk	0.830475119	0.907489062	0.91267871
wgEncodeAwgTfbsSydhHuvecMaxUniPk	0.861504302	0.935076042	0.940436617

wg Encode Awg Tfbs Sydh Imr 90 Cebpb Iggrab Uni Pk	0.929816246	0.978394818	0.977417367
wg Encode Awg Tfbs Sydh K 562 Cebpb Iggrab UniPk	0.937764831	0.981185207	0.981396214
wgEncodeAwgTfbsSydhK562CfosUniPk	0.933823529	0.977556227	0.979663883
wgEncodeAwgTfbsSydhK562CjunUniPk	0.915416451	0.96681855	0.969365022
wg Encode Awg Tfbs Sydh K 562 Corestsc 30189 Iggrab UniPk	0.83967836	0.919201014	0.924371559
wgEncodeAwgTfbsSydhK562Gata2UcdUniPk	0.874369445	0.943658832	0.947027574
wgEncodeAwgTfbsSydhK562JundIggrabUniPk	0.882529161	0.950057479	0.954460958
wg Encode Awg Tfbs Sydh K 562 Max Iggrab UniPk	0.821095335	0.902409336	0.907394154
wg Encode Awg Tfbs Sydh K 562P300 Iggrab UniPk	0.848224003	0.924772793	0.930654576
wg Encode Awg Tfbs Sydh K 562 Tbp Igg mus UniPk	0.770074594	0.847193774	0.857659615
wg Encode Awg Tfbs Sydh K562 Yy 1 Ucd UniPk	0.908900524	0.960002237	0.967232588
wg Encode Awg Tfbs Sydh Mcf10 aes Cfos Tam 112h Hvd UniPk	0.926039546	0.977172444	0.976988413
wg Encode Awg Tfbs Sydh Mcf10 aes Cfos Tam14h Hvd UniPk	0.92073389	0.974091128	0.974056617
wg Encode Awg Tfbs Sydh Mcf10 aes Cfos Tam Hvd UniPk	0.930236807	0.978566201	0.978550419
wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Etoh 01 b UniPk	0.899846617	0.964487735	0.965044946
wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Etoh 01 c UniPk	0.90363535	0.965210171	0.967265016
wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Etoh 01 Uni Pk	0.879463364	0.949127764	0.949864281
wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Tam 112 h Hvd UniPk	0.903385366	0.964423911	0.964508149
wg Encode Awg Tfbs Sydh Mcf10 aes Stat 3 Tam UniPk	0.903766174	0.966186617	0.96721173
wg Encode Awg Tfbs Sydh Mcf7 Gata 3 Ucd UniPk	0.738840217	0.817760279	0.825586536
wg Encode Awg Tfbs Sydh Mcf7 Hae 2f1 Ucd UniPk	0.761073476	0.846028876	0.848384672
wgEncodeAwgTfbsSydhNb4CmycUniPk	0.811597013	0.891449537	0.899663695
wg Encode Awg Tfbs Sydh Nb 4 Max UniPk	0.835488611	0.915115739	0.92222883
wgEncodeAwgTfbsSydhNt2d1Yy1UcdUniPk	0.886448848	0.947972438	0.958286795
wg Encode Awg Tfbs Sydh Shsy 5y Gata 2 Ucd UniPk	0.857766018	0.932689791	0.939159018
wg Encode Awg Tfbs Sydh Shsy 5y Gata 3sc 269sc 269 Ucd UniPk	0.826066047	0.907616527	0.914292386
wg Encode Awg Tfbs Uchicago K 562 Efos UniPk	0.933746898	0.97290435	0.97786723
wg Encode Awg Tfbs Uchicago K 562 Egata 2 UniPk	0.788982674	0.865200766	0.875915122
wg Encode Awg Tfbs Uchicago K 562 Ehdac 8 UniPk	0.609649123	0.649983317	0.651924804
wg Encode Awg Tfbs Uchicago K 562 Ejund UniPk	0.848032175	0.922753039	0.932791608
wg Encode Awg Tfbs Uta Gm 12878 Cmyc UniPk	0.729080933	0.798785043	0.789938136
wg Encode Awg Tfbs Uta Gm 12878 Ctc f Uni Pk	0.951916967	0.985791413	0.986897351
wg Encode Awg Tfbs UtaH1 hesc Cmyc UniPk	0.632989691	0.645857425	0.623722268
wg Encode Awg Tfbs UtaH1 hesc Ctc f UniPk	0.941482752	0.982555959	0.982618877
wg Encode Awg Tfbs Uta Helas 3 Ctc f UniPk	0.95695612	0.987293192	0.987160311
wg Encode Awg Tfbs Uta Hepg 2 Cmyc Uni Pk	0.789931585	0.857649912	0.861308417
wgEncodeAwgTfbsUtaK562CtcfUniPk	0.955994839	0.988598867	0.989214392
wg Encode Awg Tfbs UtaMcf7Ctcf UniPk	0.917158975	0.968807619	0.970049539
Average	0.837094712	0.902132217	0.906037431