Mapping stats (1x36mers) (for QC)

Species	#	Raw fragments	Read Length	Unique	Unique dedup	Multi	Fraction aligned	Complexity	MACS2 NumPeaks	MACS2 RPM	MACS2 IDR NumPeaks	MACS2 IDR RPM	NSC	RSC	QC
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_MPP8-KO_rep1-GSM2509501	26,864,146	1x36	21,390,501			0.80	0.89					1.169	0.963	0
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_MPP8-KO_rep2-GSM2509502	25,159,780	1x36	19,987,758			0.79	0.91					1.162	0.937	0
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_WT_rep1-GSM2509499	30,815,380	1x36	24,730,115			0.80	0.90					1.122	0.816	0
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_WT_rep2-GSM2509500	25,056,531	1x36	19,727,228			0.79	0.91					1.150	0.783	0
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MORC2-KO_rep1-GSM2509489	27,263,311	1x36	19,169,202			0.70	0.94					1.081	0.275	-1
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MORC2-KO_rep2-GSM2509490	27,988,904	1x36	19,595,788			0.70	0.95					1.091	0.279	-1
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MPP8-KO_rep1-GSM2509505	26,375,904	1x36	19,729,173			0.75	0.91					1.099	0.370	-1
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MPP8-KO_rep2-GSM2509506	29,372,572	1x36	21,806,179			0.74	0.88					1.133	0.479	-1
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_TASOR-KO_rep1-GSM2509491	23,582,862	1x36	16,473,785			0.70	0.95					1.101	0.279	-1
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_TASOR-KO_rep2-GSM2509492	24,718,857	1x36	17,229,403			0.70	0.95					1.108	0.297	-1
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep1-GSM2509487	36,249,888	1x36	25,909,467			0.71	0.92					1.066	0.244	-2
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep2-GSM2509488	32,621,494	1x36	22,860,288			0.70	0.93					1.072	0.273	-1
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep3-GSM2509503	25,636,116	1x36	19,200,935			0.75	0.93					1.112	0.446	-1
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep4-GSM2509504	23,437,674	1x36	17,589,569			0.75	0.94					1.123	0.456	-1
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_hESC_WT_rep1-GSM2789816	74,596,717	1x36	27,868,840			0.37	0.95					1.356	1.985	2
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_hESC_WT_rep2-GSM2789817	121,286,448	1x36	38,402,423			0.32	0.92					1.1586	1.351	1
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_K562_WT_rep1-GSM2789810	33,943,816	1x36	59,501,216			1.75	0.73					1.030	0.196	-2
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_K562_WT_rep2-GSM2789811	46,972,551	1x36	100,956,278			2.15	0.79					1.045	0.310	-1
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_mESC_WT_rep1-GSM2789820	103,655,573	1x36	1,214,062			0.01	0.75					2.418	0.022	-2
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_mESC_WT_rep2-GSM2789821	91,432,873	1x36	1,135,658			0.01	0.73					2.367	0.022	-2
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_MPP8-KO_rep1-GSM2509509	24,923,312	1x36	20,417,792			0.82	0.93					1.076	0.429	-1
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_MPP8-KO_rep2-GSM2509510	15,256,403	1x36	12,440,188			0.82	0.95					1.084	0.403	-1
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_WT_rep1-GSM2509507	36,342,891	1x36	29,898,604			0.82	0.92					1.062	0.411	-1
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_WT_rep2-GSM2509508	22,690,817	1x36	18,624,910			0.82	0.94					1.061	0.347	-1
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_MORC2-KO_rep1-GSM2509495	18,019,895	1x36	13,540,177			0.75	0.85					1.453	3.441	2
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_MORC2-KO_rep2-GSM2509496	9,986,540	1x36	7,307,760			0.73	0.94					1.345	2.224	2
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_TASOR-KO_rep1-GSM2509497	24,394,835	1x36	18,506,667			0.76	0.92					1.255	1.357	1
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_TASOR-KO_rep2-GSM2509498	8,861,546	1x36	6,844,241			0.77	0.96					1.169	0.785	0
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_WT_rep1-GSM2509493	5,851,503	1x36	4,516,361			0.77	0.97					1.147	0.717	0
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_WT_rep2-GSM2509494	9,464,991	1x36	7,391,497			0.78	0.97					1.121	0.550	0
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MORC2-KO_rep1-GSM2509481	12,385,520	1x36	9,780,407			0.79	0.95					1.109	0.597	0
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MORC2-KO_rep2-GSM2509482	11,446,921	1x36	9,002,991			0.79	0.93					1.156	0.760	0
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MPP8-KO_rep1-GSM2509483	11,811,162	1x36	9,119,465			0.77	0.94					1.226	1.074	1
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MPP8-KO_rep2-GSM2509484	17,464,099	1x36	14,080,003			0.81	0.95					1.076	0.426	-1
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_TASOR-KO_rep1-GSM2509485	12,179,740	1x36	9,805,160			0.81	0.95					1.076	0.411	-1
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_TASOR-KO_rep2-GSM2509486	9,071,907	1x36	7,226,482			0.80	0.95					1.106	0.600	0

Mapping stats (1x36mers) (for QC)

Species	#	Raw fragments	Read Length	Unique	Unique dedup	Multi	Fraction aligned	Complexity	MACS2 NumPeaks	MACS2 RPM	MACS2 IDR NumPeaks	MACS2 IDR RPM	NSC	RSC	QC
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_WT_rep1-GSM2509479	8,063,663	1x36	6,525,994			0.81	0.97					1.057	0.342	-1
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_WT_rep2-GSM2509480	10,626,760	1x36	8,481,015			0.80	0.96					1.063	0.381	-1
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_hESC_WT_rep1-GSM2789814	84,103,205	1x36	9,425,124			0.11	0.85					1.913	6.199	2
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_hESC_WT_rep2-GSM2789815	76,788,530	1x36	9,230,332			0.12	0.89					2.118	7.158	2
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MORC2-KO_rep1-GSM2509457	11,622,551	1x36	10,350,765			0.89	0.88					1.359	2.904	2
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MORC2-KO_rep2-GSM2509458	11,338,567	1x36	8,618,528			0.76	0.92					1.228	1.506	2
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MPP8-KO_rep1-GSM2509459	12,691,229	1x36	8,453,061			0.67	0.90					1.257	2.083	2
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MPP8-KO_rep2-GSM2509460	10,553,316	1x36	13,606,611			1.29	0.85					1.187	1.271	1
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_TASOR-KO_rep1-GSM2509461	10,398,844	1x36	10,230,828			0.98	0.84					1.277	1.764	2
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_TASOR-KO_rep2-GSM2509462	16,749,490	1x36	8,945,334			0.53	0.86					1.302	2.469	2
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_WT_rep1-GSM2509455	12,726,801	1x36	68,858,919			5.41	0.31					1.293	1.406	1
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_WT_rep2-GSM2509456	11,132,424	1x36	63,331,010			5.69	0.33					1.282	1.342	1
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_hESC_WT_rep1-GSM2789812	81,639,486	1x36	10,829,661			0.13	0.96					1.261	1.766	2
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_hESC_WT_rep2-GSM2789813	79,712,081	1x36	10,594,179			0.13	0.96					1.365	2.453	2
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_mESC_WT_rep1-GSM2789818	103,655,573	1x36	10,134,985			0.10	0.93					2.418	0.022	-2
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_mESC_WT_rep2-GSM2789819	91,432,873	1x36	12,617,461			0.14	0.94					2.367	0.022	-2
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MORC2-KO_rep1-GSM2509465	13,356,883	1x36	21,523,772			1.61	0.93					1.089	0.586	0
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MORC2-KO_rep2-GSM2509466	13,151,539	1x36	12,064,465			0.92	0.95					1.085	0.608	0
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MPP8-KO_rep1-GSM2509467	12,631,005	1x36	14,930,175			1.18	0.95					1.149	0.932	0
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MPP8-KO_rep2-GSM2509468	15,708,642	1x36	11,160,550			0.71	0.96					1.068	0.423	-1
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_TASOR-KO_rep1-GSM2509469	26,880,948	1x36	66,508,916			2.47	0.72					1.076	0.483	-1
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_TASOR-KO_rep2-GSM2509470	15,056,406	1x36	64,981,507			4.32	0.66					1.076	0.449	-1
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_WT_rep1-GSM2509463	18,471,954	1x36	1,214,062			0.07	0.75					1.059	0.388	-1
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_WT_rep2-GSM2509464	13,681,575	1x36	1,135,658			0.08	0.73					1.055	0.330	-1
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MORC2-KO_rep1-GSM2789804	18,786,261	1x36	15,637,541			0.83	0.92					1.466	3.875	2
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MORC2-KO_rep2-GSM2789805	14,267,572	1x36	11,846,926			0.83	0.93					1.493	3.849	2
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MPP8-KO_rep1-GSM2789806	16,863,119	1x36	14,083,038			0.84	0.91					1.589	4.664	2
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MPP8-KO_rep2-GSM2789807	15,364,187	1x36	12,827,149			0.83	0.91					1.594	4.817	2
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_TASOR-KO_rep1-GSM2789808	13,369,810	1x36	11,155,835			0.83	0.91					1.486	4.019	2
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_TASOR-KO_rep2-GSM2789809	15,262,669	1x36	12,720,959			0.83	0.92					1.457	3.853	2
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_WT_rep1-GSM2789802	30,887,649	1x36	25,799,998			0.84	0.89					1.361	3.257	2
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_WT_rep2-GSM2789803	25,360,426	1x36	21,172,439			0.83	0.91					1.393	3.250	2
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MORC2-KO_rep1-GSM2509473	20,642,268	1x36	16,691,876			0.81	0.91					1.117	0.834	0
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MORC2-KO_rep2-GSM2509474	14,445,345	1x36	11,612,306			0.80	0.91					1.139	0.989	0
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MPP8-KO_rep1-GSM2509475	11,676,877	1x36	9,390,906			0.80	0.85					1.423	3.176	2
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MPP8-KO_rep2-GSM2509476	13,871,573	1x36	11,205,925			0.81	0.84					1.463	3.742	2
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_TASOR-KO_rep1-GSM2509477	12,504,223	1x36	10,034,484			0.80	0.80					1.883	5.631	2
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_TASOR-KO_rep2-GSM2509478	12,859,715	1x36	10,312,563			0.80	0.78					1.843	5.719	2
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_WT_rep1-GSM2509471	15,006,948	1x36	12,042,477			0.80	0.90					1.145	1.142	1
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_WT_rep2-GSM2509472	14,638,912	1x36	11,787,246			0.81	0.89					1.173	1.183	1

Mapping stats (2x36mers)

Species	#	Raw fragments	Read Length	Unique	Unique dedup	Multi	Fraction aligned	Complexity	MACS2 NumPeaks	MACS2 RPM	MACS2 IDR NumPeaks	MACS2 IDR RPM	NSC	RSC	QC
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_MPP8-KO_rep1-GSM2509501	26,864,146	2x36	43,608,160	38,482,930		0.81	0.88	1,037	683	25	158			
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_MPP8-KO_rep2-GSM2509502	25,159,780	2x36	40,760,836	37,012,624		0.81	0.90	748	573	25	172			
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_WT_rep1-GSM2509499	30,815,380	2x36	50,418,986	45,467,608		0.82	0.89	1,670	1,049	72	377			
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_WT_rep2-GSM2509500	25,056,531	2x36	39,448,116	35,849,172		0.79	0.90	2,183	1,665	72	437			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MORC2-KO_rep1-GSM2509489	27,263,311	2x36	39,569,968	37,538,136		0.73	0.94	64,124	105,446	27,722	139,555			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MORC2-KO_rep2-GSM2509490	27,988,904	2x36	40,326,878	38,315,212		0.72	0.94	40,439	66,470	27,722	135,250			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MPP8-KO_rep1-GSM2509505	26,375,904	2x36	40,587,346	37,132,338		0.77	0.91	47,950	62,360	16,545	88,191			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MPP8-KO_rep2-GSM2509506	29,372,572	2x36	44,567,562	39,328,446		0.76	0.87	63,257	78,889	16,545	91,512			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_TASOR-KO_rep1-GSM2509491	23,582,862	2x36	33,877,084	32,460,926		0.72	0.95	71,256	101,669	18,195	100,576			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_TASOR-KO_rep2-GSM2509492	24,718,857	2x36	35,351,946	33,716,548		0.72	0.95	35,511	61,845	18,195	99,205			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep1-GSM2509487	36,249,888	2x36	53,434,386	49,419,006		0.74	0.91	13,640	33,548	28,262	163,552			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep2-GSM2509488	32,621,494	2x36	47,302,244	44,156,742		0.73	0.92	52,031	114,939	28,262	177,726			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep3-GSM2509503	25,636,116	2x36	39,593,700	36,960,606		0.77	0.93	2,416	4,475	28,262	126,675			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep4-GSM2509504	23,437,674	2x36	36,337,182	34,115,586		0.78	0.93	12,463	18,573	28,262	125,872			
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_hESC_WT_rep1-GSM2789816	74,596,717	2x36	56,884,304	54,910,270		0.38	0.95							
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_hESC_WT_rep2-GSM2789817	121,286,448	2x36	78,278,974	72,255,248		0.32	0.91							
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_K562_WT_rep1-GSM2789810	33,943,816	2x36	121,118,738	81,397,956		1.78	0.66							
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_K562_WT_rep2-GSM2789811	46,972,551	2x36	203,853,650	152,031,728		2.17	0.73							
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_mESC_WT_rep1-GSM2789820	103,655,573	2x36	360,310	260,918		0.00	0.70							
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_mESC_WT_rep2-GSM2789821	91,432,873	2x36	421,658	295,914		0.00	0.68							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_MPP8-KO_rep1-GSM2509509	24,923,312	2x36	41,511,510	39,032,774		0.83	0.93							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_MPP8-KO_rep2-GSM2509510	15,256,403	2x36	24,674,374	23,571,600		0.81	0.95							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_WT_rep1-GSM2509507	36,342,891	2x36	60,450,296	56,283,182		0.83	0.92							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_WT_rep2-GSM2509508	22,690,817	2x36	37,536,346	35,640,532		0.83	0.94							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_MORC2-KO_rep1-GSM2509495	18,019,895	2x36	18,233,602	15,593,506		0.51	0.82							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_MORC2-KO_rep2-GSM2509496	9,986,540	2x36	14,001,188	13,196,996		0.70	0.93							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_TASOR-KO_rep1-GSM2509497	24,394,835	2x36	38,607,304	35,825,370		0.79	0.92							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_TASOR-KO_rep2-GSM2509498	8,861,546	2x36	14,195,988	13,747,368		0.80	0.96							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_WT_rep1-GSM2509493	5,851,503	2x36	9,316,508	9,073,534		0.80	0.97							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_WT_rep2-GSM2509494	9,464,991	2x36	15,245,140	14,870,316		0.81	0.97							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MORC2-KO_rep1-GSM2509481	12,385,520	2x36	20,031,638	19,310,946		0.81	0.95							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MORC2-KO_rep2-GSM2509482	11,446,921	2x36	18,404,436	17,157,866		0.80	0.92							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MPP8-KO_rep1-GSM2509483	11,811,162	2x36	17,842,380	16,968,186		0.76	0.94							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MPP8-KO_rep2-GSM2509484	17,464,099	2x36	28,948,326	27,734,880		0.83	0.95							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_TASOR-KO_rep1-GSM2509485	12,179,740	2x36	20,192,034	19,378,676		0.83	0.95							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_TASOR-KO_rep2-GSM2509486	9,071,907	2x36	14,874,484	14,178,572		0.82	0.94							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_WT_rep1-GSM2509479	8,063,663	2x36	13,415,402	13,065,496		0.83	0.97							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_WT_rep2-GSM2509480	10,626,760	2x36	17,373,540	16,879,362		0.82	0.96							

Mapping stats (2x36mers)

Species	#	Raw fragments	Read Length	Unique	Unique dedup	Multi	Fraction aligned	Complexity	MACS2 NumPeaks	MACS2 RPM	MACS2 IDR NumPeaks	MACS2 IDR RPM	NSC	RSC	QC
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_hESC_WT_rep1-GSM2789814	84,103,205	2x36	19,273,656	15,960,756		0.11	0.82	1,342,521	418,842	7,992	29,022			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_hESC_WT_rep2-GSM2789815	76,788,530	2x36	18,912,482	16,539,950		0.12	0.87	1,379,331	445,694	7,992	27,100			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MORC2-KO_rep1-GSM2509457	11,622,551	2x36	21,248,154	18,258,538		0.91	0.85	432	412	42	186			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MORC2-KO_rep2-GSM2509458	11,338,567	2x36	17,638,526	16,054,624		0.78	0.90	169	184	42	185			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MPP8-KO_rep1-GSM2509459	12,691,229	2x36	17,265,876	15,420,848		0.68	0.89	743	1,165	239	1,057			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MPP8-KO_rep2-GSM2509460	10,553,316	2x36	27,821,472	22,880,346		1.32	0.82	177	470	239	751			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_TASOR-KO_rep1-GSM2509461	10,398,844	2x36	21,070,638	17,352,516		1.01	0.82	275	690	562	2,080			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_TASOR-KO_rep2-GSM2509462	16,749,490	2x36	18,252,796	15,432,580		0.54	0.84	937	1,768	562	2,305			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_WT_rep1-GSM2509455	12,726,801	2x36	138,565,774	36,278,398		5.44	0.25	5,947	16,489	2,420	20,044			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_WT_rep2-GSM2509456	11,132,424	2x36	127,370,668	35,031,700		5.72	0.27	4,359	15,488	2,420	21,376			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_hESC_WT_rep1-GSM2789812	81,639,486	2x36	22,068,474	21,270,764		0.14	0.96	381,597	115,025	7,095	30,064			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_hESC_WT_rep2-GSM2789813	79,712,081	2x36	21,621,006	20,770,164		0.14	0.95	717,974	180,377	7,095	29,905			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_mESC_WT_rep1-GSM2789818	103,655,573	2x36	20,803,092	19,389,340		0.10	0.93	34	202,923	27	182,020			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_mESC_WT_rep2-GSM2789819	91,432,873	2x36	25,920,818	24,329,924		0.14	0.93	40	214,339	27	187,690			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MORC2-KO_rep1-GSM2509465	13,356,883	2x36	44,305,152	41,506,740		1.66	0.93	150	330	192	1,160			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MORC2-KO_rep2-GSM2509466	13,151,539	2x36	24,826,322	23,762,616		0.94	0.95	55	132	192	986			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MPP8-KO_rep1-GSM2509467	12,631,005	2x36	30,409,326	29,105,896		1.20	0.95	121	238	111	357			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MPP8-KO_rep2-GSM2509468	15,708,642	2x36	22,750,838	22,084,888		0.72	0.96	34	120	111	362			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_TASOR-KO_rep1-GSM2509469	26,880,948	2x36	134,381,498	89,053,644		2.50	0.65	99	266	184	609			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_TASOR-KO_rep2-GSM2509470	15,056,406	2x36	130,800,250	77,054,026		4.34	0.58	69	209	184	614			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_WT_rep1-GSM2509463	18,471,954	2x36	360,240	260,744		0.01	0.70	76	236	149	824			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_WT_rep2-GSM2509464	13,681,575	2x36	421,888	296,092		0.02	0.68	39	88	149	703			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MORC2-KO_rep1-GSM2789804	18,786,261	2x36	31,739,662	29,942,432		0.84	0.92	41,783	298,779	17,914	324,217			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MORC2-KO_rep2-GSM2789805	14,267,572	2x36	24,084,604	22,781,570		0.84	0.92	38,272	303,224	17,914	338,280			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MPP8-KO_rep1-GSM2789806	16,863,119	2x36	28,545,804	26,586,746		0.85	0.90	35,398	306,069	19,646	377,020			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MPP8-KO_rep2-GSM2789807	15,364,187	2x36	25,956,268	24,300,034		0.84	0.91	43,978	367,556	19,646	372,208			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_TASOR-KO_rep1-GSM2789808	13,369,810	2x36	22,585,692	21,073,210		0.84	0.90	46,838	410,483	19,244	433,369			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_TASOR-KO_rep2-GSM2789809	15,262,669	2x36	25,712,620	24,472,858		0.84	0.92	44,887	389,476	19,244	422,968			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_WT_rep1-GSM2789802	30,887,649	2x36	52,609,520	48,118,914		0.85	0.88	38,530	327,066	23,217	480,288			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_WT_rep2-GSM2789803	25,360,426	2x36	43,125,664	40,596,934		0.85	0.91	46,561	354,117	23,217	488,324			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MORC2-KO_rep1-GSM2509473	20,642,268	2x36	34,347,092	31,094,742		0.83	0.90	338	1,026	317	1,733			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MORC2-KO_rep2-GSM2509474	14,445,345	2x36	23,903,934	21,758,104		0.83	0.90	245	733	317	1,576			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MPP8-KO_rep1-GSM2509475	11,676,877	2x36	19,334,430	16,254,836		0.83	0.83	771	2,103	169	1,702			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MPP8-KO_rep2-GSM2509476	13,871,573	2x36	22,987,818	18,951,788		0.83	0.82	327	1,659	169	1,601			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_TASOR-KO_rep1-GSM2509477	12,504,223	2x36	20,625,106	16,010,450		0.82	0.77	1,488	4,176	318	3,346			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_TASOR-KO_rep2-GSM2509478	12,859,715	2x36	21,212,192	16,100,110		0.82	0.75	1,609	4,358	318	3,423			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_WT_rep1-GSM2509471	15,006,948	2x36	24,742,396	22,116,592		0.82	0.89	244	862	198	1,159			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_WT_rep2-GSM2509472	14,638,912	2x36	24,245,954	21,509,786		0.83	0.88	271	835	198	1,129			

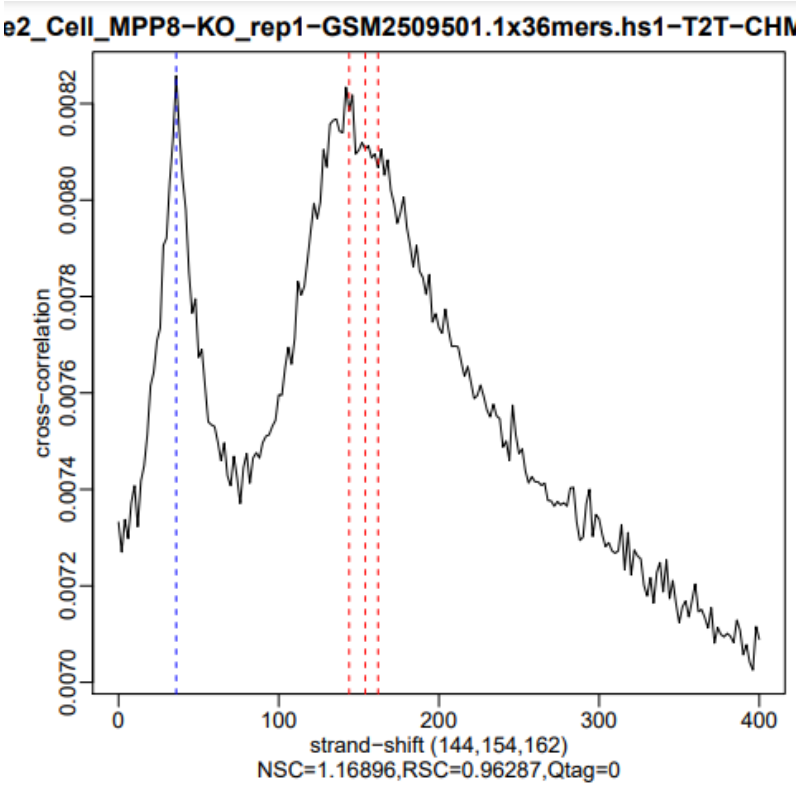
Mapping stats (2x75mers)

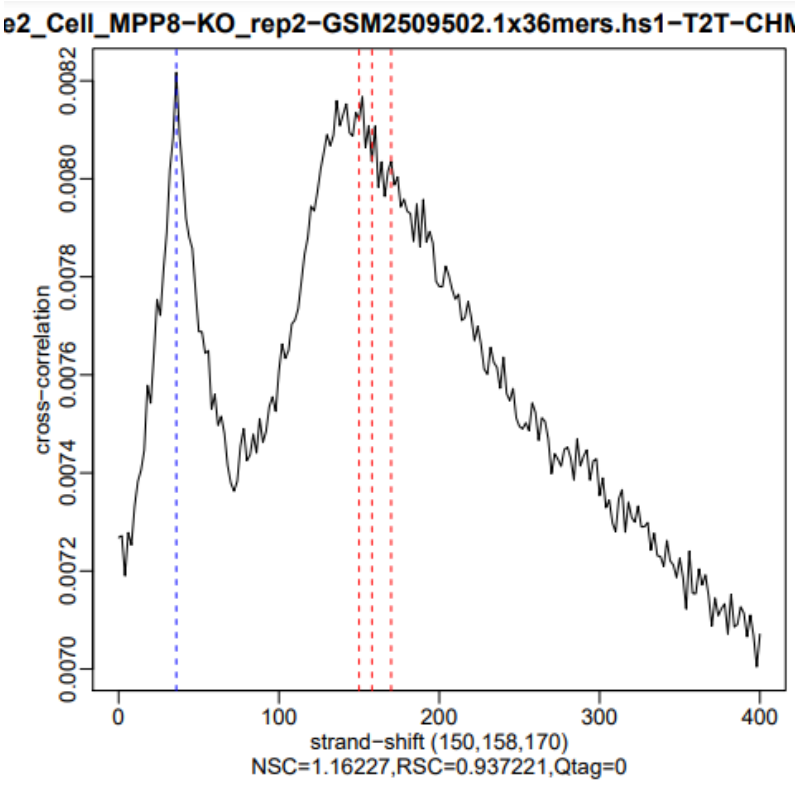
Species	#	Raw fragments	Read Length	Unique	Unique dedup	Multi	Fraction aligned	Complexity	MACS2 NumPeaks	MACS2 RPM	MACS2 IDR NumPeaks	MACS2 IDR RPM	NSC	RSC	QC
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_MPP8-KO_rep1-GSM2509501	26,864,146	2x75	44,766,582	39,501,814	3,402,540	0.90	0.87	1,306	957	22	76			
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_MPP8-KO_rep2-GSM2509502	25,159,780	2x75	42,152,520	38,270,938	3,182,492	0.90	0.90	961	797	22	83			
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_WT_rep1-GSM2509499	30,815,380	2x75	51,936,072	46,832,778	3,988,478	0.91	0.89	2,151	1,538	111	455			
hs1-T2T-CHM13v2.0	ChIP_H3K9me2_Cell_WT_rep2-GSM2509500	25,056,531	2x75	40,793,860	37,063,056	3,186,642	0.88	0.90	2,746	2,239	111	519			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MORC2-KO_rep1-GSM2509489	27,263,311	2x75	41,380,996	39,264,392	6,180,572	0.87	0.94	54,409	97,656	25,741	121,253			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MORC2-KO_rep2-GSM2509490	27,988,904	2x75	42,405,880	40,296,810	6,262,224	0.87	0.94	47,310	76,975	25,741	116,660			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MPP8-KO_rep1-GSM2509505	26,375,904	2x75	42,329,898	38,732,870	5,236,028	0.90	0.91	56,690	74,523	16,713	82,942			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_MPP8-KO_rep2-GSM2509506	29,372,572	2x75	46,553,984	41,082,894	5,669,172	0.89	0.87	75,464	94,027	16,713	86,046			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_TASOR-KO_rep1-GSM2509491	23,582,862	2x75	35,489,758	34,012,820	5,293,716	0.86	0.95	60,510	96,848	18,353	99,796			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_TASOR-KO_rep2-GSM2509492	24,718,857	2x75	37,313,884	35,589,654	5,638,102	0.87	0.94	38,608	68,011	18,353	98,597			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep1-GSM2509487	36,249,888	2x75	55,970,922	51,781,226	7,989,900	0.88	0.91	16,275	39,338	28,725	166,481			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep2-GSM2509488	32,621,494	2x75	49,702,668	46,411,792	7,459,902	0.88	0.92	47,176	113,278	28,725	180,866			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep3-GSM2509503	25,636,116	2x75	41,453,710	38,699,444	5,001,884	0.91	0.93	2,725	5,560	28,725	130,468			
hs1-T2T-CHM13v2.0	ChIP_H3K9me3_Cell_WT_rep4-GSM2509504	23,437,674	2x75	38,065,364	35,743,202	4,596,946	0.91	0.93	14,803	23,161	28,725	129,494			
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_hESC_WT_rep1-GSM2789816	74,596,717	2x75	57,798,354	55,798,948	3,973,922	0.41	0.95							
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_hESC_WT_rep2-GSM2789817	121,286,448	2x75	79,737,408	73,601,690	5,710,798	0.35	0.91							
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_K562_WT_rep1-GSM2789810	33,943,816	2x75	118,597,980	80,718,112	10,295,856	1.90	0.67							
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_K562_WT_rep2-GSM2789811	46,972,551	2x75	199,457,480	150,041,148	15,139,794	2.28	0.74							
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_mESC_WT_rep1-GSM2789820	103,655,573	2x75	101,598	94,060	43,130	0.00	0.92							
hs1-T2T-CHM13v2.0	ChIP_Input_Cell_mESC_WT_rep2-GSM2789821	91,432,873	2x75	162,222	146,022	48,214	0.00	0.89							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_MPP8-KO_rep1-GSM2509509	24,923,312	2x75	42,202,650	39,697,624	3,141,012	0.91	0.93							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_MPP8-KO_rep2-GSM2509510	15,256,403	2x75	25,207,748	24,089,382	1,857,784	0.89	0.95							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_WT_rep1-GSM2509507	36,342,891	2x75	61,508,994	57,287,900	4,655,332	0.91	0.92							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me2or3_Cell_WT_rep2-GSM2509508	22,690,817	2x75	38,225,180	36,307,640	2,862,458	0.91	0.94							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_MORC2-KO_rep1-GSM2509495	18,019,895	2x75	17,663,894	15,134,478	2,149,360	0.55	0.82							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_MORC2-KO_rep2-GSM2509496	9,986,540	2x75	14,284,786	13,462,662	1,140,612	0.77	0.93							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_TASOR-KO_rep1-GSM2509497	24,394,835	2x75	40,031,402	37,121,368	2,851,568	0.88	0.91							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_TASOR-KO_rep2-GSM2509498	8,861,546	2x75	14,657,396	14,201,348	1,134,240	0.89	0.96							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_WT_rep1-GSM2509493	5,851,503	2x75	9,599,126	9,351,330	713,810	0.88	0.97							
hs1-T2T-CHM13v2.0	ChIP_Input_H3K9me3_Cell_WT_rep2-GSM2509494	9,464,991	2x75	15,754,758	15,372,784	1,269,904	0.90	0.97							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MORC2-KO_rep1-GSM2509481	12,385,520	2x75	20,563,994	19,826,818	1,458,564	0.89	0.95							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MORC2-KO_rep2-GSM2509482	11,446,921	2x75	18,892,724	17,613,186	1,321,238	0.88	0.92							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MPP8-KO_rep1-GSM2509483	11,811,162	2x75	18,335,396	17,437,404	1,239,540	0.83	0.94							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_MPP8-KO_rep2-GSM2509484	17,464,099	2x75	29,674,194	28,433,142	2,189,608	0.91	0.95							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_TASOR-KO_rep1-GSM2509485	12,179,740	2x75	20,693,256	19,862,840	1,554,424	0.91	0.95							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_TASOR-KO_rep2-GSM2509486	9,071,907	2x75	15,275,446	14,562,980	1,148,884	0.91	0.94							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_WT_rep1-GSM2509479	8,063,663	2x75	13,629,890	13,277,724	979,180	0.91	0.97							
hs1-T2T-CHM13v2.0	ChIP_Input_MORC2-MPP8-TASOR_Cell_WT_rep2-GSM2509480	10,626,760	2x75	17,741,456	17,241,228	1,283,122	0.90	0.96							

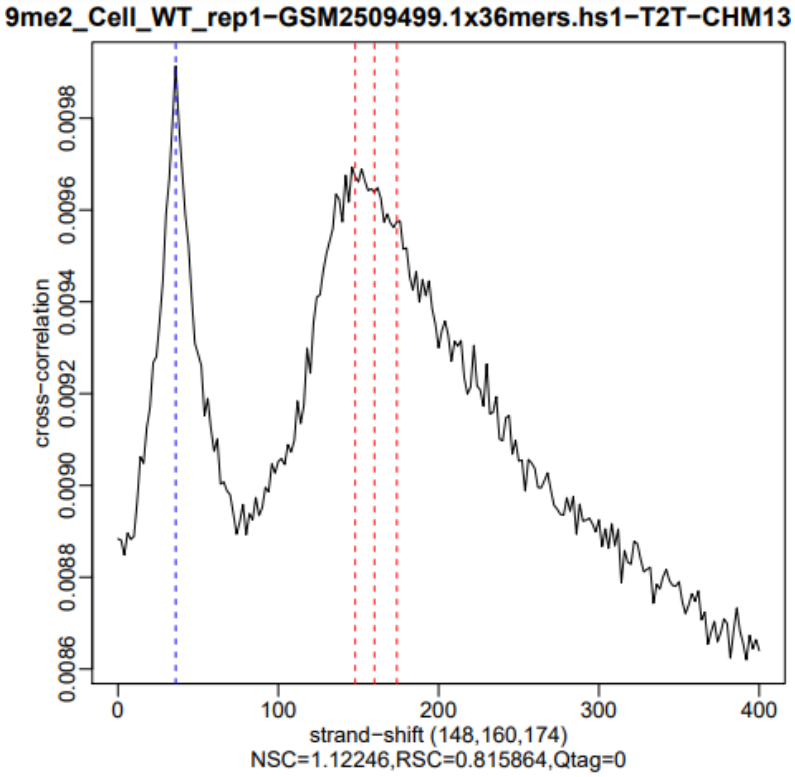
Mapping stats (2x75mers)

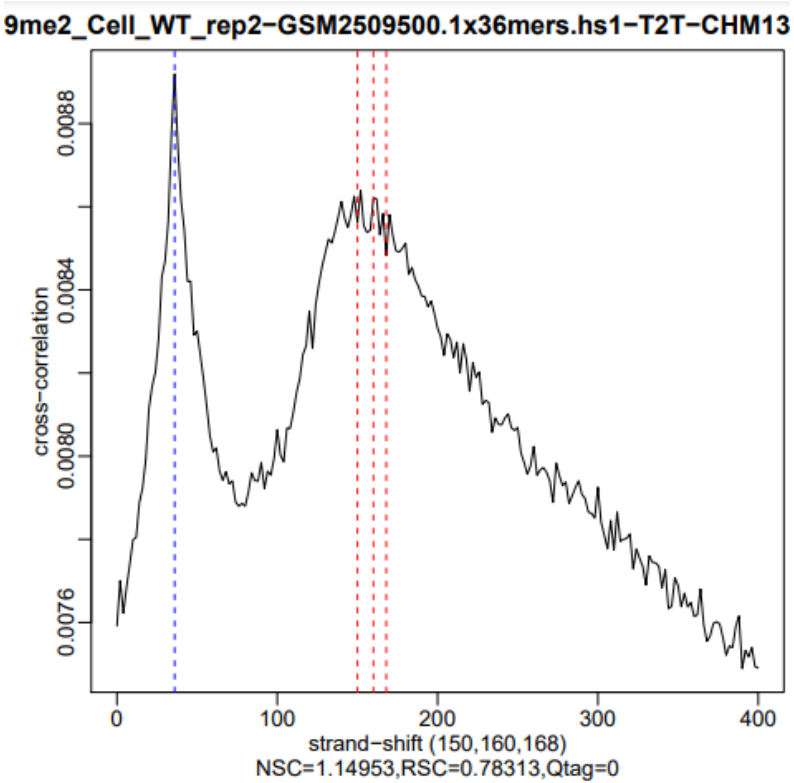
Species	#	Raw fragments	Read Length	Unique	Unique dedup	Multi	Fraction aligned	Complexity	MACS2 NumPeaks	MACS2 RPM	MACS2 IDR NumPeaks	MACS2 IDR RPM	NSC	RSC	QC
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_hESC_WT_rep1-GSM2789814	84,103,205	2x75	19,647,680	16,262,658	1,346,390	0.12	0.82	1,266,363	427,708	8,302	28,165			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_hESC_WT_rep2-GSM2789815	76,788,530	2x75	19,307,200	16,883,536	1,371,782	0.13	0.87	1,312,626	453,042	8,302	26,541			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MORC2-KO_rep1-GSM2509457	11,622,551	2x75	21,661,408	18,608,680	1,514,734	1.00	0.85	443	459	0	0			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MORC2-KO_rep2-GSM2509458	11,338,567	2x75	17,995,728	16,380,656	1,300,452	0.85	0.90	49	71	0	0			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MPP8-KO_rep1-GSM2509459	12,691,229	2x75	17,613,130	15,731,306	1,338,696	0.75	0.89	724	1,203	236	1,033			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_MPP8-KO_rep2-GSM2509460	10,553,316	2x75	28,362,020	23,310,820	2,142,394	1.45	0.81	174	451	236	784			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_TASOR-KO_rep1-GSM2509461	10,398,844	2x75	21,632,820	17,808,150	1,692,882	1.12	0.82	311	750	542	2,027			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_TASOR-KO_rep2-GSM2509462	16,749,490	2x75	18,726,866	15,830,338	1,436,770	0.60	0.84	920	1,811	542	2,241			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_WT_rep1-GSM2509455	12,726,801	2x75	135,151,646	36,162,838	10,664,896	5.73	0.26	6,742	21,194	2,777	24,885			
hs1-T2T-CHM13v2.0	ChIP_MORC2_Cell_WT_rep2-GSM2509456	11,132,424	2x75	123,919,806	34,943,352	9,655,914	6.00	0.28	5,180	19,966	2,777	26,132			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_hESC_WT_rep1-GSM2789812	81,639,486	2x75	22,493,104	21,683,522	1,666,064	0.15	0.96	337,938	118,861	7,382	31,081			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_hESC_WT_rep2-GSM2789813	79,712,081	2x75	22,080,650	21,214,334	1,730,406	0.15	0.95	654,432	190,674	7,382	30,880			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_mESC_WT_rep1-GSM2789818	103,655,573	2x75	21,241,020	19,799,448	1,668,626	0.11	0.93	0	0	0	0			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_mESC_WT_rep2-GSM2789819	91,432,873	2x75	26,352,232	24,742,536	2,088,714	0.16	0.93	0	0	0	0			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MORC2-KO_rep1-GSM2509465	13,356,883	2x75	45,205,836	42,358,502	3,625,838	1.83	0.93	184	419	234	1,387			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MORC2-KO_rep2-GSM2509466	13,151,539	2x75	25,340,178	24,260,514	2,035,592	1.04	0.95	64	156	234	1,188			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MPP8-KO_rep1-GSM2509467	12,631,005	2x75	31,007,364	29,681,578	2,422,388	1.32	0.95	126	271	115	344			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_MPP8-KO_rep2-GSM2509468	15,708,642	2x75	23,237,088	22,560,476	1,709,906	0.79	0.96	21	66	115	355			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_TASOR-KO_rep1-GSM2509469	26,880,948	2x75	131,943,512	88,437,258	11,373,312	2.67	0.66	99	278	196	678			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_TASOR-KO_rep2-GSM2509470	15,056,406	2x75	128,447,302	76,665,466	11,101,876	4.63	0.59	77	239	196	684			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_WT_rep1-GSM2509463	18,471,954	2x75	101,588	94,048	43,108	0.00	0.92	87	300	219	1,194			
hs1-T2T-CHM13v2.0	ChIP_MPP8_Cell_WT_rep2-GSM2509464	13,681,575	2x75	162,228	146,032	48,206	0.01	0.89	49	123	219	1,026			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MORC2-KO_rep1-GSM2789804	18,786,261	2x75	31,730,452	29,951,026	2,037,242	0.90	0.92	43,980	299,364	19,085	322,461			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MORC2-KO_rep2-GSM2789805	14,267,572	2x75	24,123,032	22,831,758	1,559,952	0.90	0.92	39,470	300,523	19,085	335,624			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MPP8-KO_rep1-GSM2789806	16,863,119	2x75	28,495,554	26,564,054	1,802,364	0.90	0.90	35,955	304,038	20,279	369,541			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_MPP8-KO_rep2-GSM2789807	15,364,187	2x75	25,917,340	24,284,004	1,637,620	0.90	0.91	45,928	364,667	20,279	365,038			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_TASOR-KO_rep1-GSM2789808	13,369,810	2x75	22,511,124	21,021,090	1,443,908	0.90	0.91	48,615	407,038	19,712	428,535			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_TASOR-KO_rep2-GSM2789809	15,262,669	2x75	25,663,440	24,440,918	1,671,564	0.90	0.92	46,765	387,551	19,712	418,307			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_WT_rep1-GSM2789802	30,887,649	2x75	52,708,624	48,234,836	3,244,726	0.91	0.88	39,804	324,169	24,126	472,166			
hs1-T2T-CHM13v2.0	ChIP_PolII_Cell_K562_WT_rep2-GSM2789803	25,360,426	2x75	43,175,728	40,661,252	2,650,312	0.90	0.91	48,859	354,796	24,126	479,700			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MORC2-KO_rep1-GSM2509473	20,642,268	2x75	35,062,758	31,743,290	2,604,522	0.91	0.90	400	1,126	360	1,780			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MORC2-KO_rep2-GSM2509474	14,445,345	2x75	24,406,090	22,217,220	1,878,750	0.91	0.90	259	774	360	1,572			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MPP8-KO_rep1-GSM2509475	11,676,877	2x75	19,772,608	16,619,990	1,499,836	0.91	0.83	764	2,187	212	1,775			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_MPP8-KO_rep2-GSM2509476	13,871,573	2x75	23,425,424	19,307,204	1,781,762	0.91	0.82	326	1,630	212	1,670			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_TASOR-KO_rep1-GSM2509477	12,504,223	2x75	21,007,314	16,310,284	1,615,276	0.90	0.77	1,524	4,256	338	3,292			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_TASOR-KO_rep2-GSM2509478	12,859,715	2x75	21,597,398	16,395,446	1,653,474	0.90	0.75	1,665	4,499	338	3,365			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_WT_rep1-GSM2509471	15,006,948	2x75	25,233,186	22,558,116	1,959,808	0.91	0.89	187	818	264	1,441			
hs1-T2T-CHM13v2.0	ChIP_TASOR_Cell_WT_rep2-GSM2509472	14,638,912	2x75	24,742,176	21,949,704	1,893,680	0.91	0.88	339	975	264	1,442			

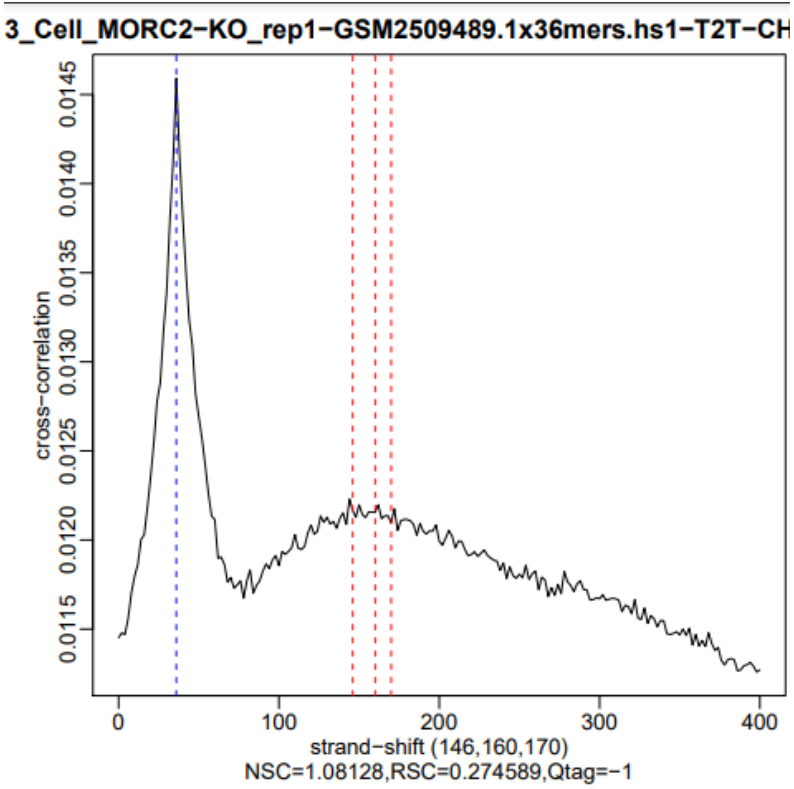
Cross-correlation profiles

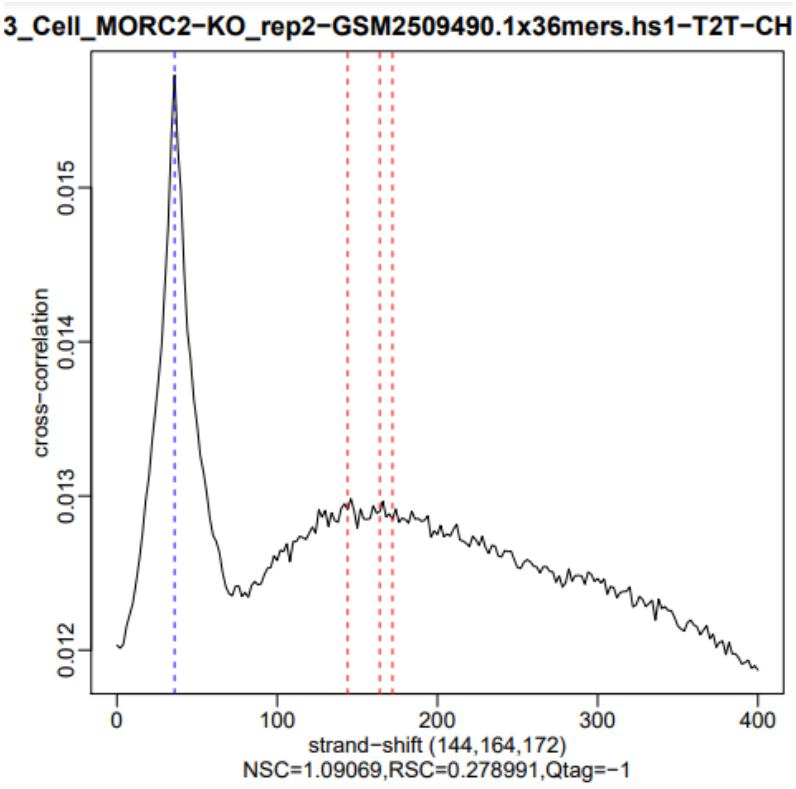


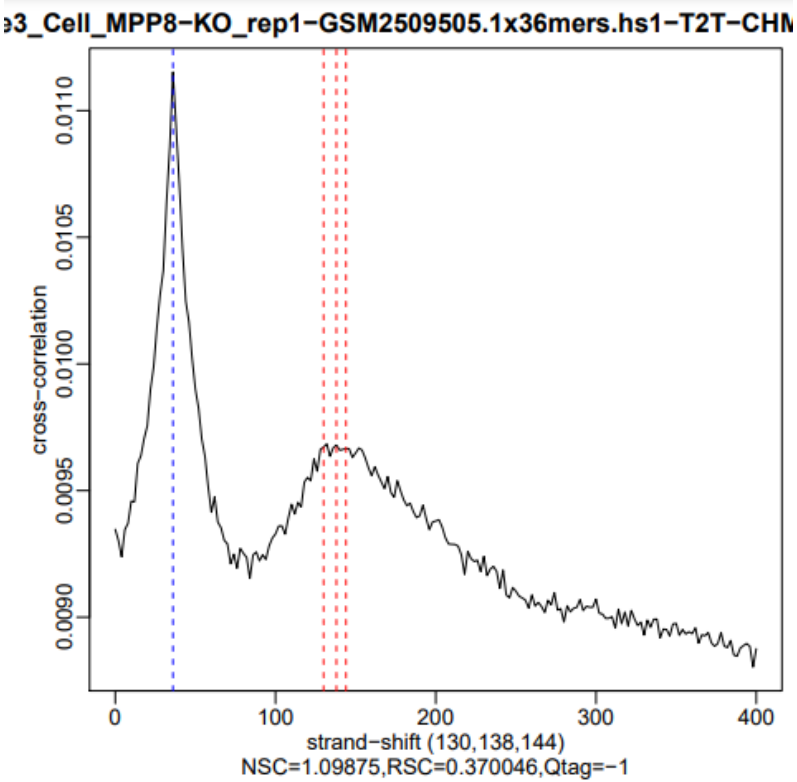


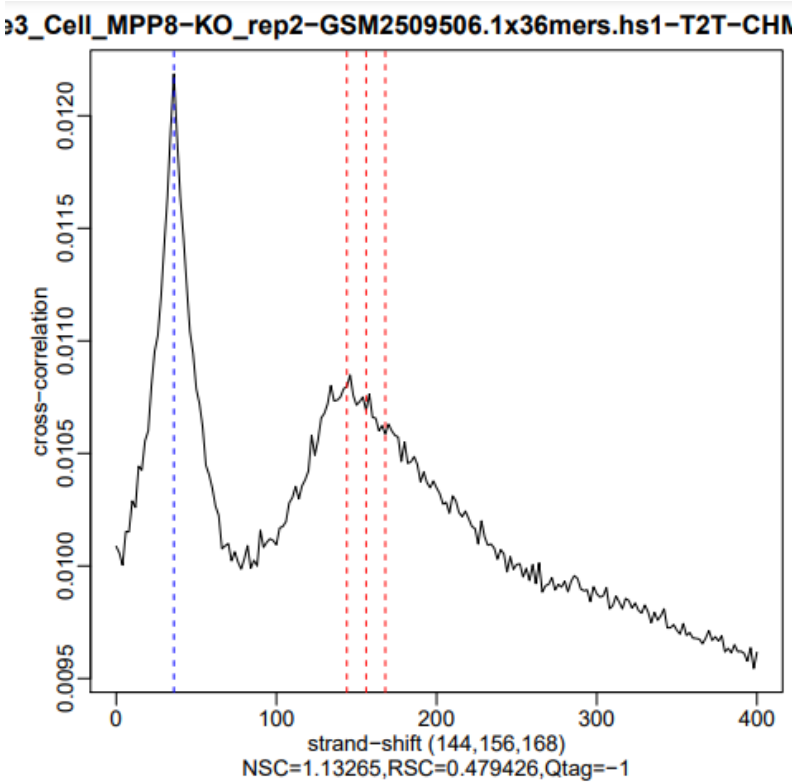

9me2_Cell_WT_rep1-GSM2509499.1x36mers.hs1-T2T-CHM13
cross-correlation
0.0086
0.0088
0.0090
0.0092
0.0094
0.0096
0.0098
0
100
200
300
400
strand-shift (148,160,174)
NSC=1.12246,RSC=0.815864,Qtag=0

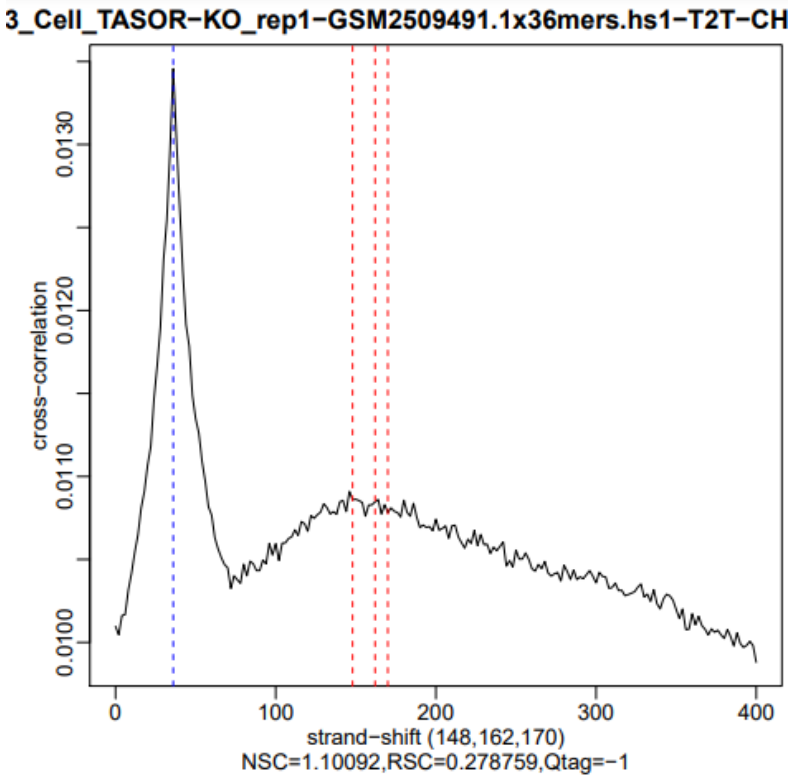

9me2_Cell_WT_rep2-GSM2509500.1x36mers.hs1-T2T-CHM13
cross-correlation
0.0076
0.0080
0.0084
0.0088
0
100
200
300
400
strand-shift (150,160,168)
NSC=1.14953,RSC=0.78313,Qtag=0

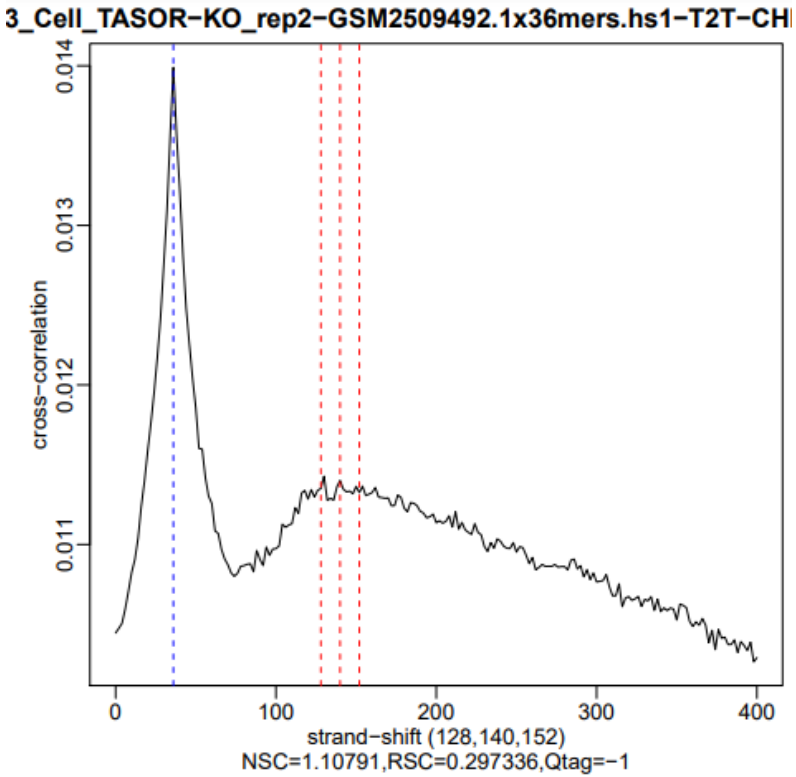

3_Cell_MORC2-KO_rep1-GSM2509489.1x36mers.hs1-T2T-CH
cross-correlation
0.0115
0.0120
0.0125
0.0130
0.0135
0.0140
0.0145
0
100
200
300
400
strand-shift (146,160,170)
NSC=1.08128,RSC=0.274589,Qtag=-1

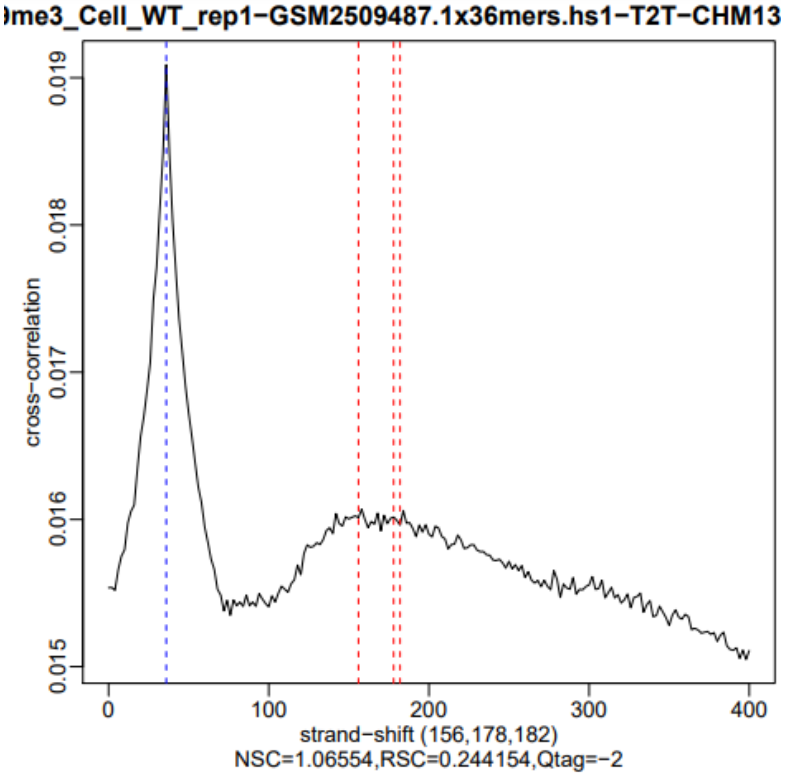

3_Cell_MORC2-KO_rep2-GSM2509490.1x36mers.hs1-T2T-CH
cross-correlation
0.012
0.013
0.014
0.015
0
100
200
300
400
strand-shift (144,164,172)
NSC=1.09069,RSC=0.278991,Qtag=-1

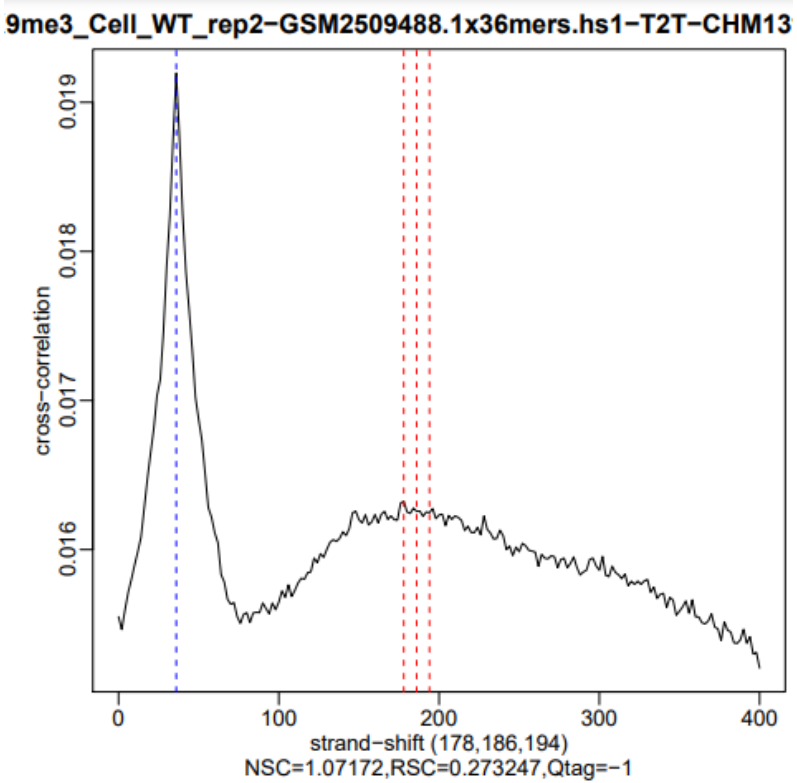

e3_Cell_MPP8−KO_rep1−GSM2509505.1x36mers.hs1−T2T−CHM
cross−correlation
0.0090
0.0095
0.0100
0.0105
0.0110
0
100
200
300
400
strand−shift (130,138,144)
NSC=1.09875,RSC=0.370046,Qtag=−1

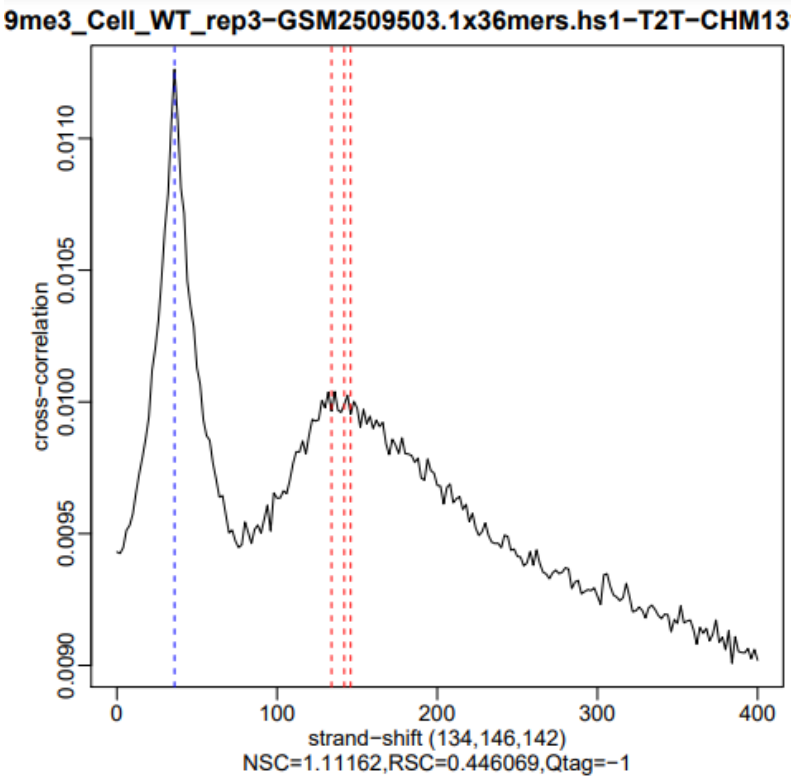

e3_Cell_MPP8−KO_rep2−GSM2509506.1x36mers.hs1−T2T−CHM
cross−correlation
0.0095
0.0100
0.0105
0.0110
0.0115
0.0120
0
100
200
300
400
strand−shift (144,156,168)
NSC=1.13265,RSC=0.479426,Qtag=−1

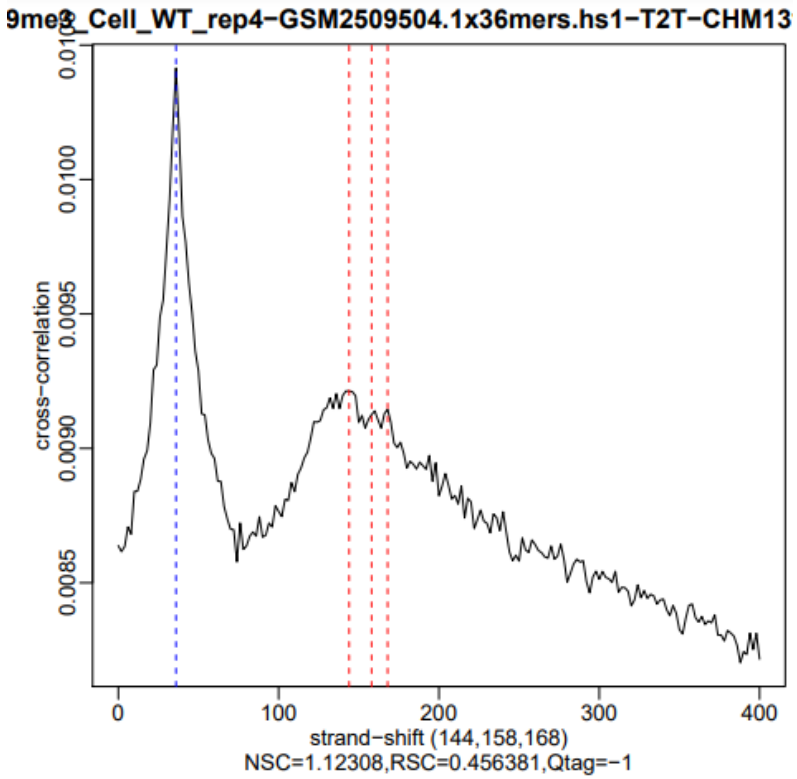

3_Cell_TASOR-KO_rep1-GSM2509491.1x36mers.hs1-T2T-CH
cross-correlation
0.0100
0.0110
0.0120
0.0130
0
100
200
300
400
strand-shift (148,162,170)
NSC=1.10092,RSC=0.278759,Qtag=-1

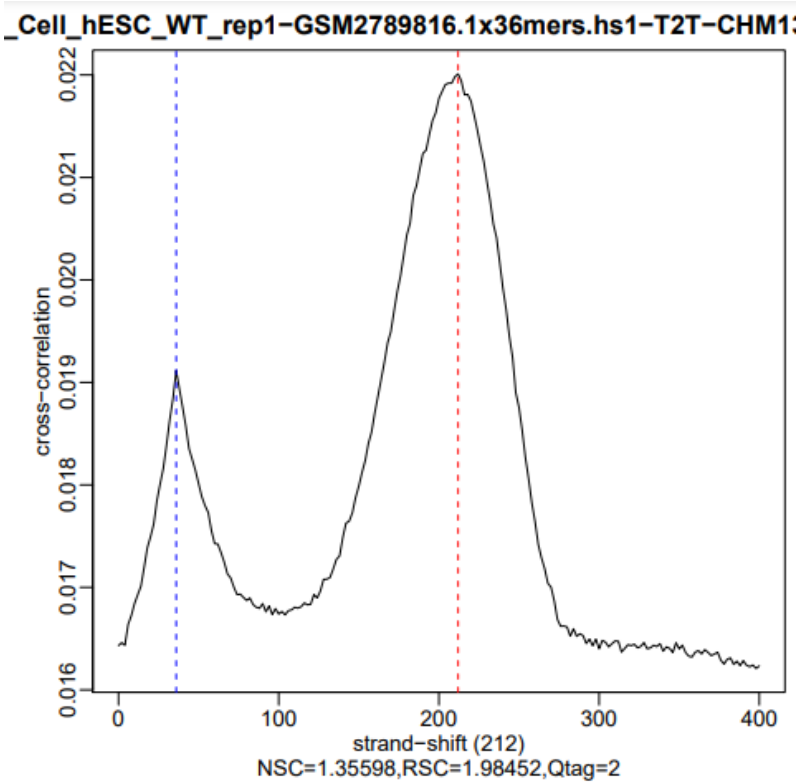

3_Cell_TASOR-KO_rep2-GSM2509492.1x36mers.hs1-T2T-CH
cross-correlation
0.011
0.012
0.013
0.014
0
100
200
300
400
strand-shift (128,140,152)
NSC=1.10791,RSC=0.297336,Qtag=-1

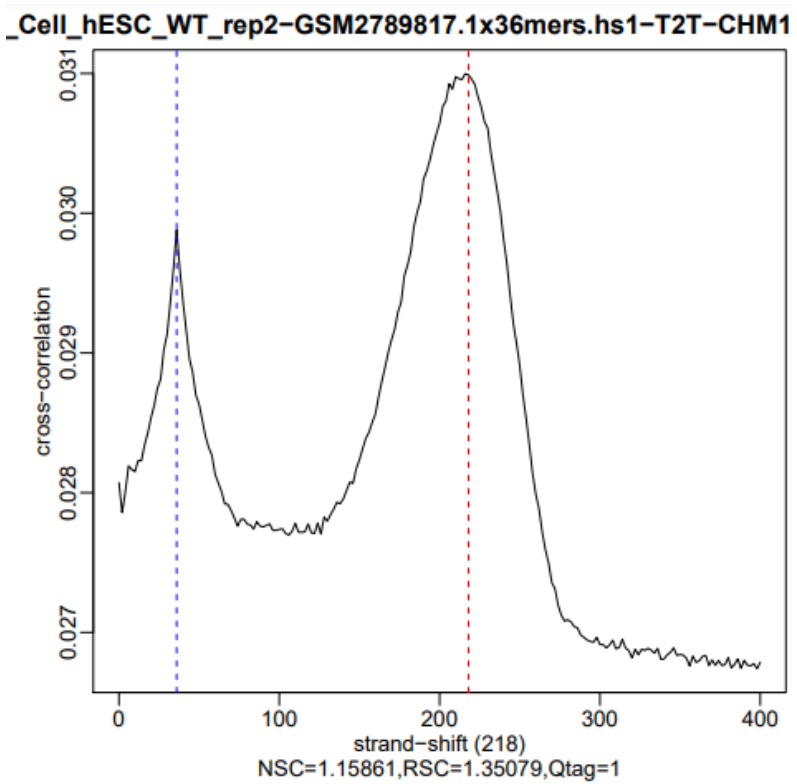

me3_Cell_WT_rep1−GSM2509487.1x36mers.hs1−T2T−CHM13
cross−correlation
0.015
0.016
0.017
0.018
0.019
0
100
200
300
400
strand−shift (156,178,182)
NSC=1.06554,RSC=0.244154,Qtag=−2

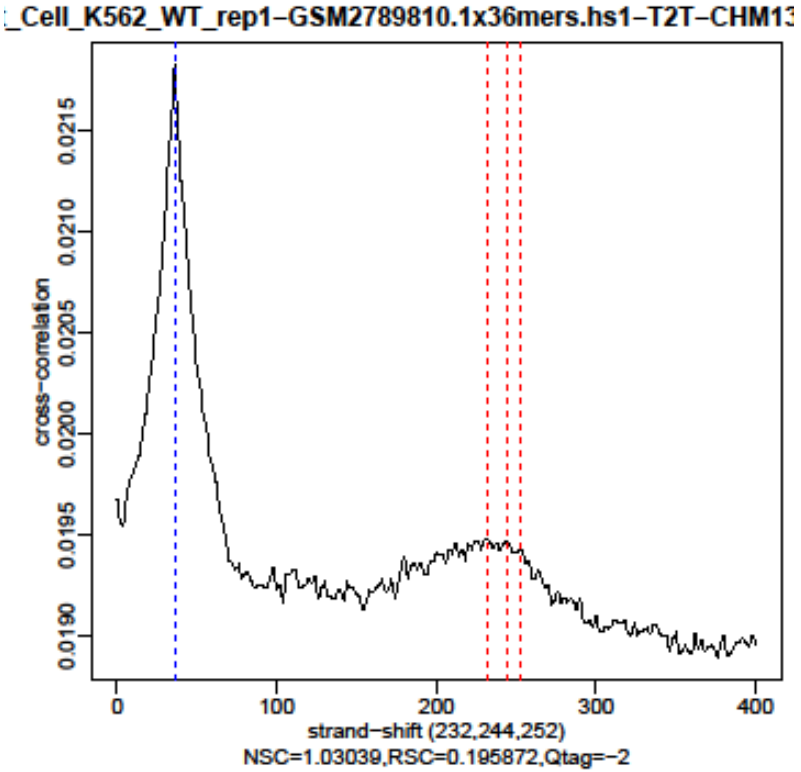

9me3_Cell_WT_rep2−GSM2509488.1x36mers.hs1−T2T−CHM13
cross−correlation
0.016
0.017
0.018
0.019
0
100
200
300
400
strand−shift (178,186,194)
NSC=1.07172,RSC=0.273247,Qtag=−1

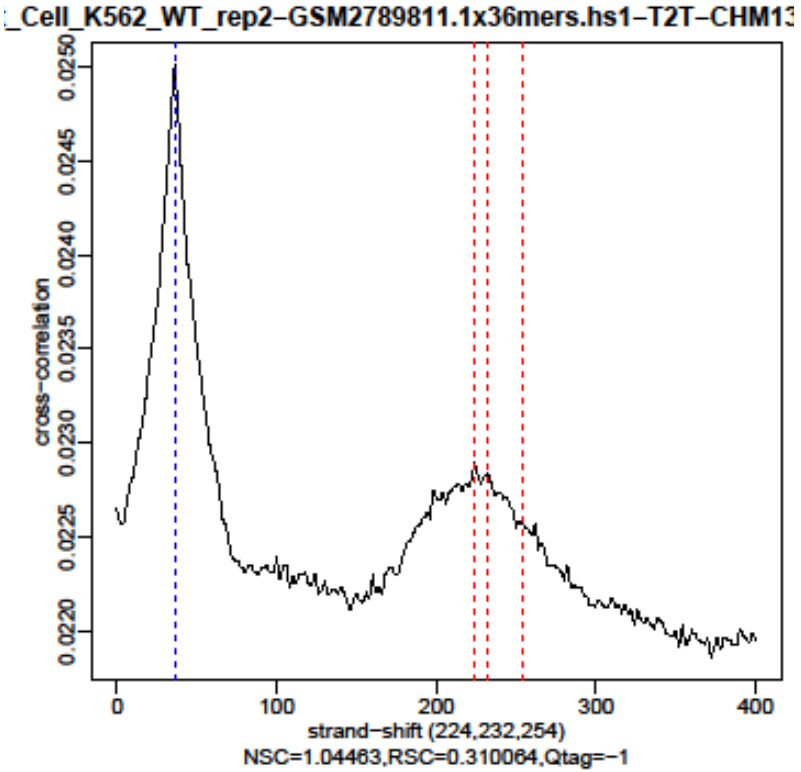

9me3_Cell_WT_rep3-GSM2509503.1x36mers.hs1-T2T-CHM13
cross-correlation
0.0090
0.0095
0.0100
0.0105
0.0110
0
100
200
300
400
strand-shift (134,146,142)
NSC=1.11162,RSC=0.446069,Qtag=-1

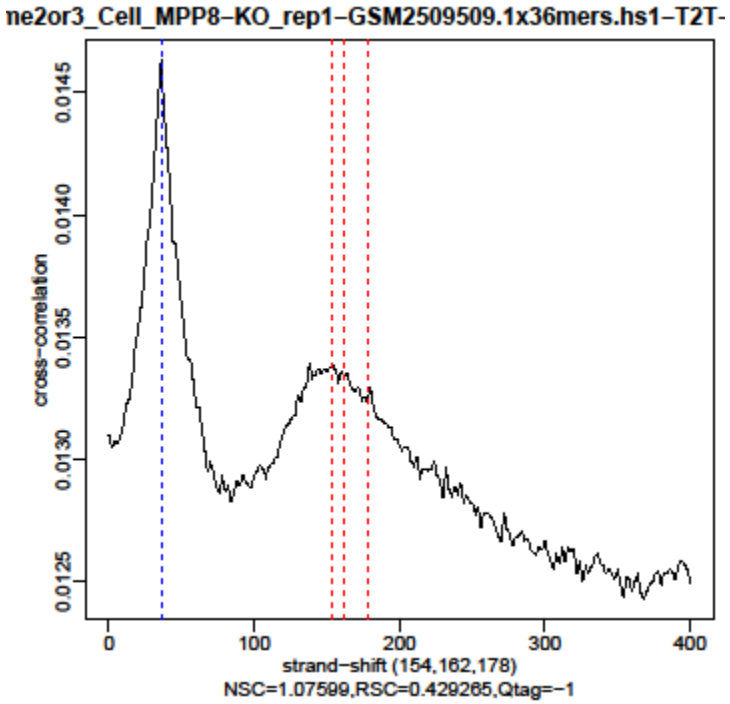

9me3_Cell_WT_rep4-GSM2509504.1x36mers.hs1-T2T-CHM13
cross-correlation
0.0085
0.0090
0.0095
0.0100
0
100
200
300
400
strand-shift (144,158,168)
NSC=1.12308,RSC=0.456381,Qtag=-1

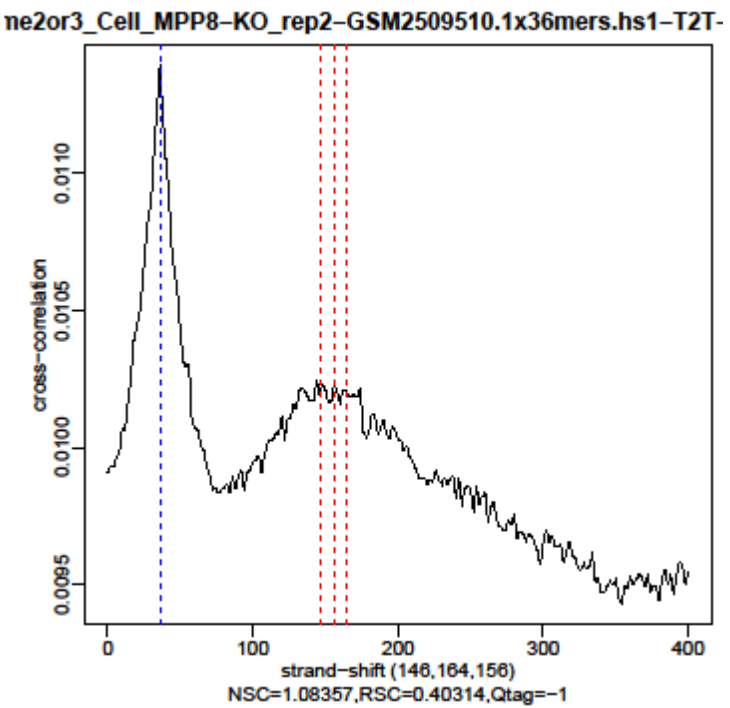

_Cell_hESC_WT_rep1-GSM2789816.1x36mers.hs1-T2T-CHM1
cross-correlation
0.016
0.017
0.018
0.019
0.020
0.021
0.022
0
100
200
300
400
strand-shift (212)
NSC=1.35598,RSC=1.98452,Qtag=2

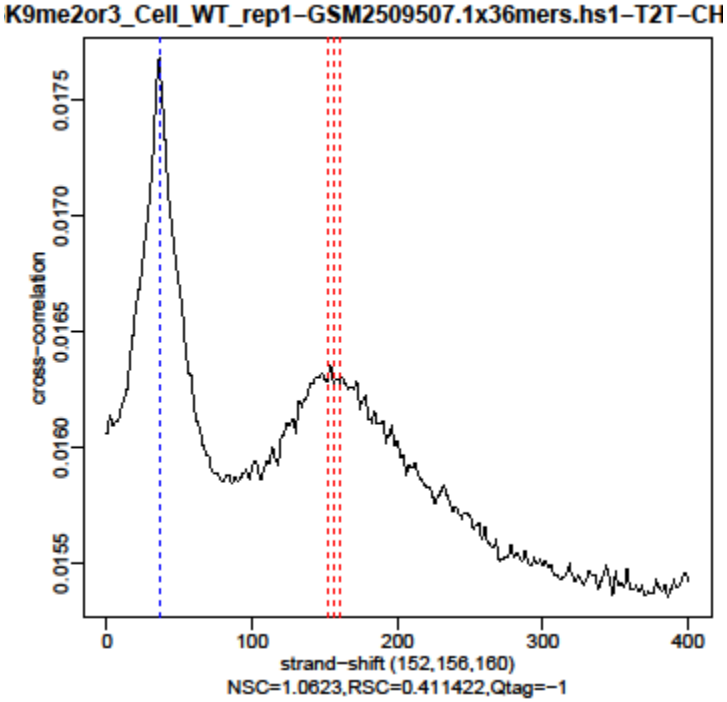

_Cell_hESC_WT_rep2-GSM2789817.1x36mers.hs1-T2T-CHM1
cross-correlation
0.027
0.028
0.029
0.030
0.031
0
100
200
300
400
strand-shift (218)
NSC=1.15861,RSC=1.35079,Qtag=1

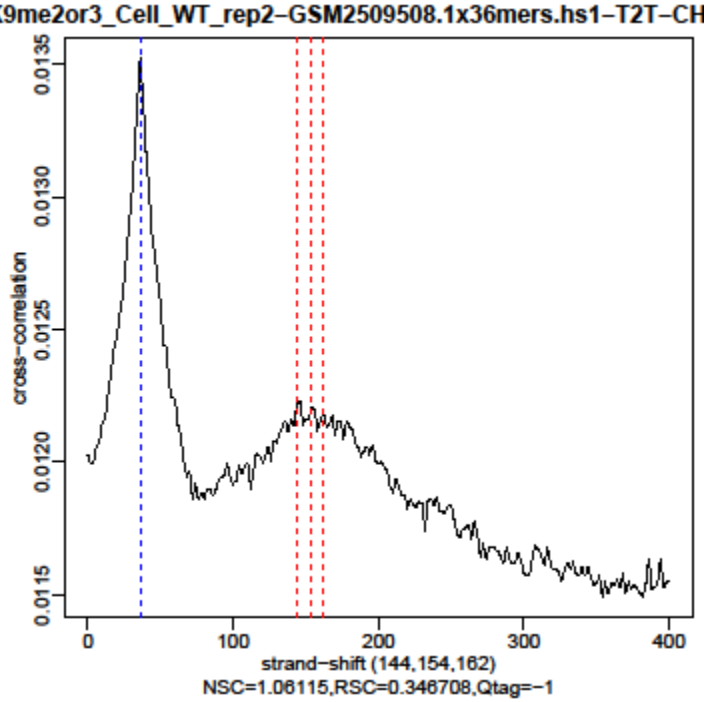

_Cell_K562_WT_rep1-GSM2789810.1x36mers.hs1-T2T-CHM13
cross-correlation
0.0190
0.0195
0.0200
0.0205
0.0210
0.0215
0
100
200
300
400
strand-shift (232,244,252)
NSC=1.03039,RSC=0.195872,Qtag=-2

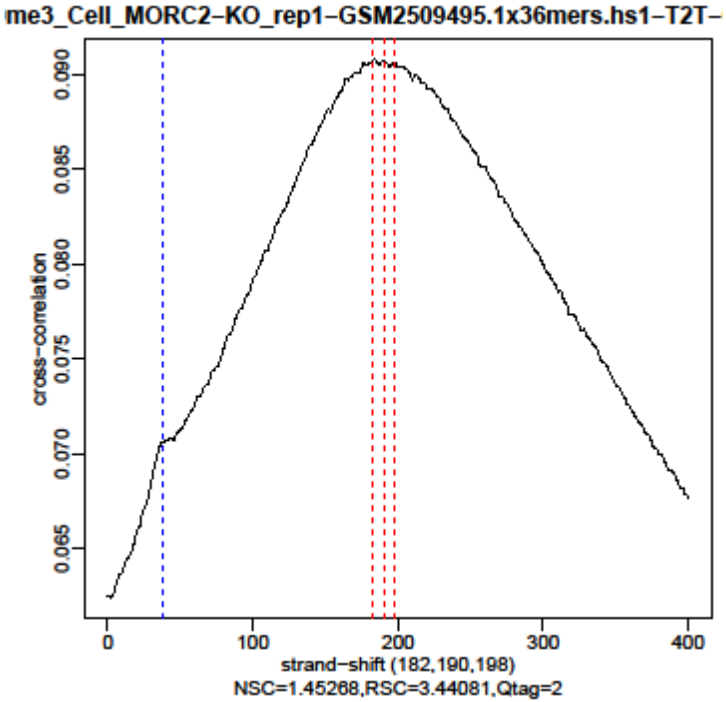

_Cell_K562_WT_rep2-GSM2789811.1x36mers.hs1-T2T-CHM13
cross-correlation
0.0220
0.0225
0.0230
0.0235
0.0240
0.0245
0.0250
0
100
200
300
400
strand-shift (224,232,254)
NSC=1.04463,RSC=0.310064,Qtag=-1

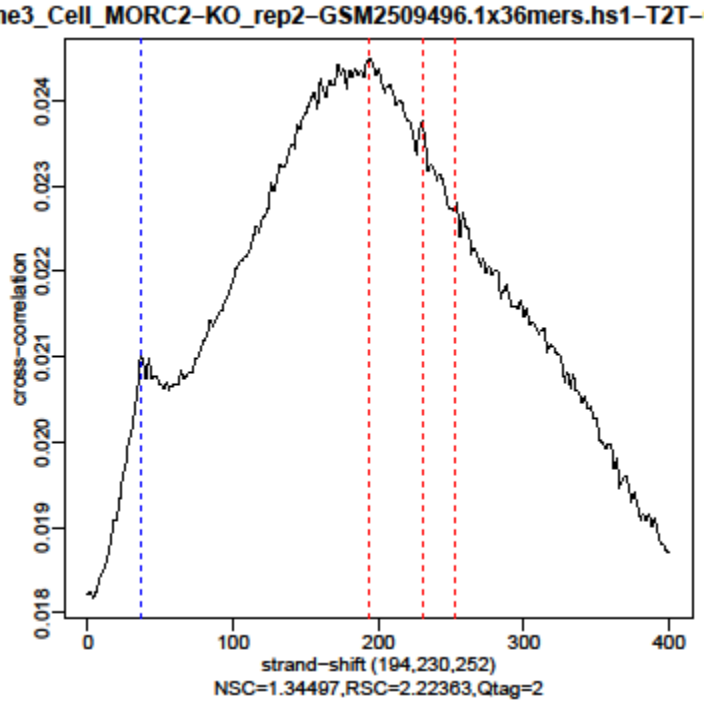

ne2or3_Cell_MPP8-KO_rep1-GSM2509509.1x36mers.hs1-T2T-
cross-correlation
0.0125
0.0130
0.0135
0.0140
0.0145
0
100
200
300
400
strand-shift (154,162,178)
NSC=1.07599,RSC=0.429265,Qtag=-1

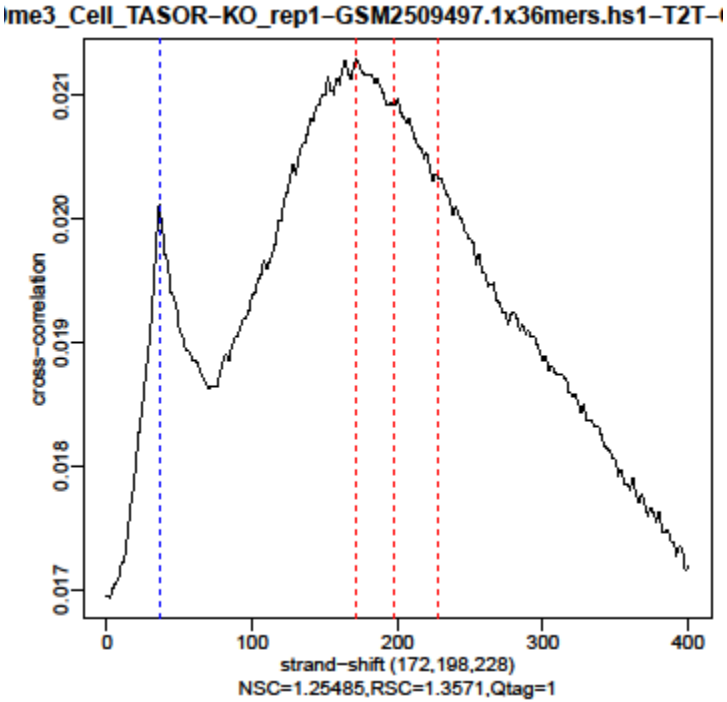

ne2or3_Cell_MPP8-KO_rep2-GSM2509510.1x36mers.hs1-T2T-
cross-correlation
0.0095
0.0100
0.0105
0.0110
0
100
200
300
400
strand-shift (146,164,156)
NSC=1.08357,RSC=0.40314,Qtag=-1

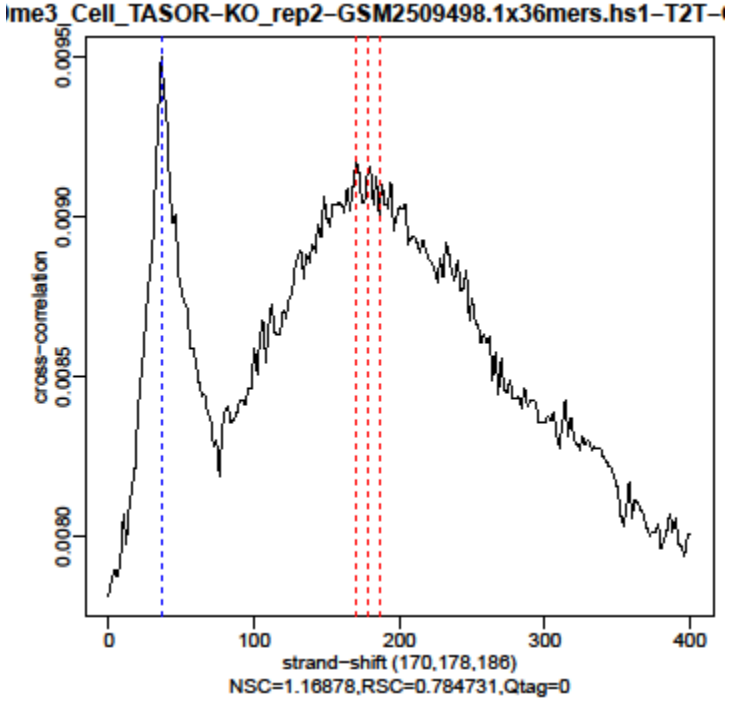

K9me2or3_Cell_WT_rep1-GSM2509507.1x36mers.hs1-T2T-CH
cross-correlation
0.0155
0.0160
0.0165
0.0170
0.0175
0
100
200
300
400
strand-shift (152,156,160)
NSC=1.0623,RSC=0.411422,Qtag=-1

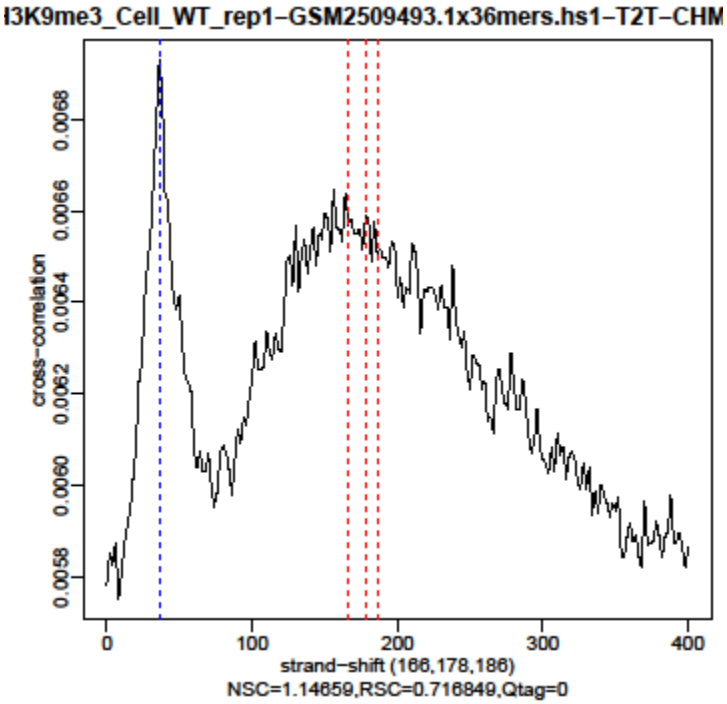

K9me2or3_Cell_WT_rep2-GSM2509508.1x36mers.hs1-T2T-CH
cross-correlation
0.0115
0.0120
0.0125
0.0130
0.0135
0
100
200
300
400
strand-shift (144,154,162)
NSC=1.06115,RSC=0.346708,Qtag=-1

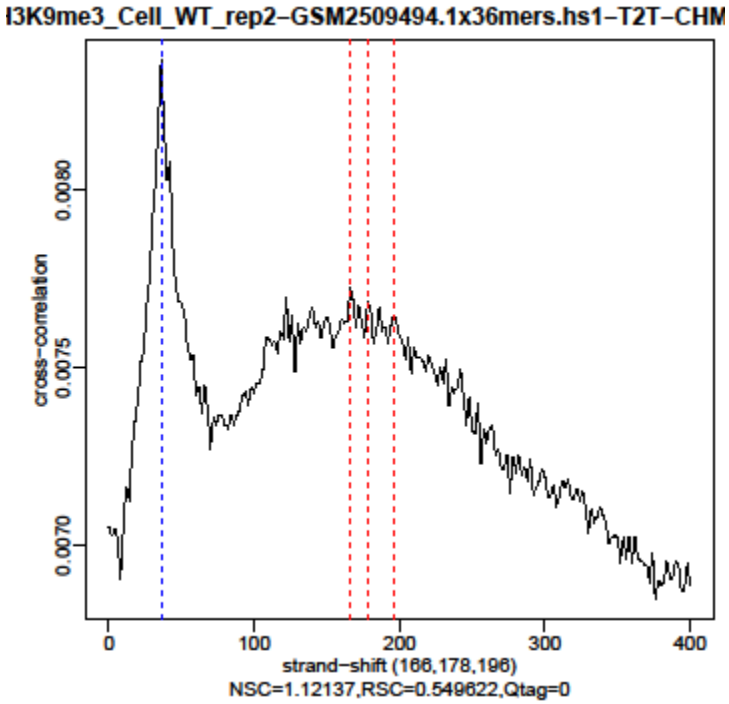

me3_Cell_MORC2-KO_rep1-GSM2509495.1x36mers.hs1-T2T-
cross-correlation
0.065
0.070
0.075
0.080
0.085
0.090
0
100
200
300
400
strand-shift (182,190,198)
NSC=1.45268,RSC=3.44081,Qtag=2

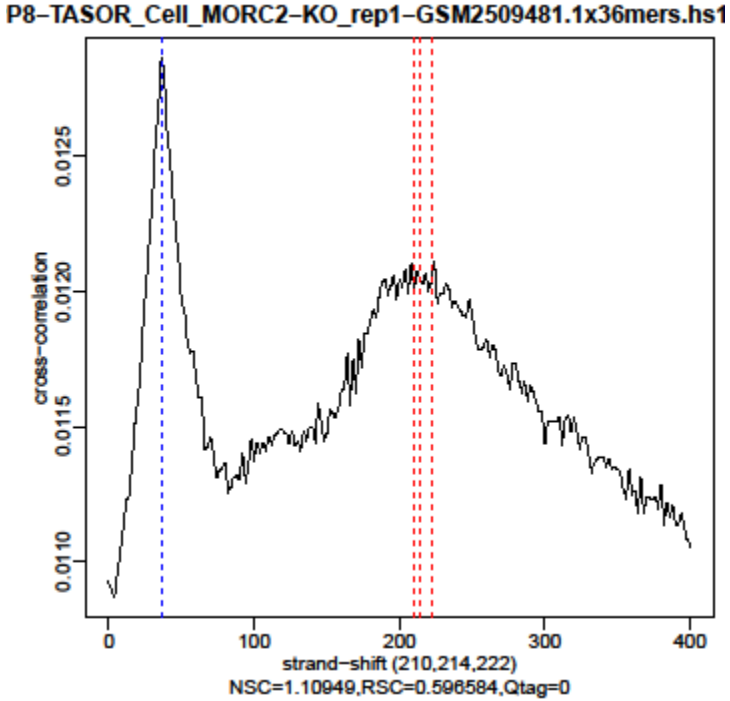

me3_Cell_MORC2-KO_rep2-GSM2509496.1x36mers.hs1-T2T-
cross-correlation
0.018
0.019
0.020
0.021
0.022
0.023
0.024
0
100
200
300
400
strand-shift (194,230,252)
NSC=1.34497,RSC=2.22363,Qtag=2

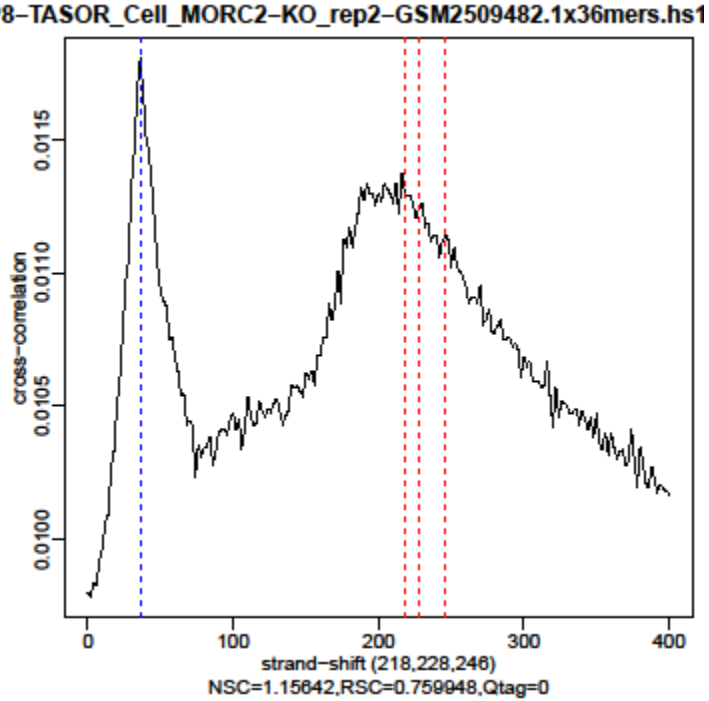

me3_Cell_TASOR-KO_rep1-GSM2509497.1x36mers.hs1-T2T-
cross-correlation
0.017
0.018
0.019
0.020
0.021
0
100
200
300
400
strand-shift (172,198,228)
NSC=1.25485,RSC=1.3571,Qtag=1

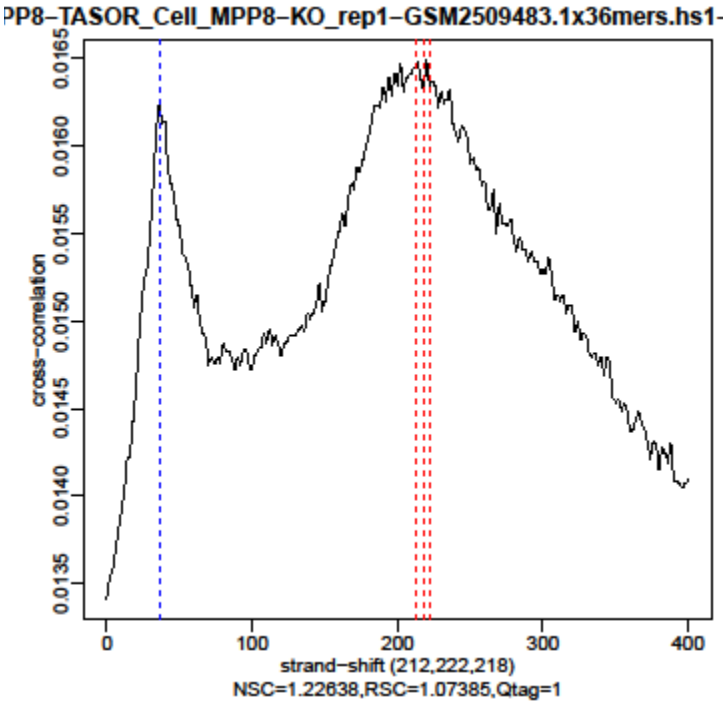

me3_Cell_TASOR-KO_rep2-GSM2509498.1x36mers.hs1-T2T-
cross-correlation
0.0080
0.0085
0.0090
0.0095
0
100
200
300
400
strand-shift (170,178,186)
NSC=1.16878,RSC=0.784731,Qtag=0

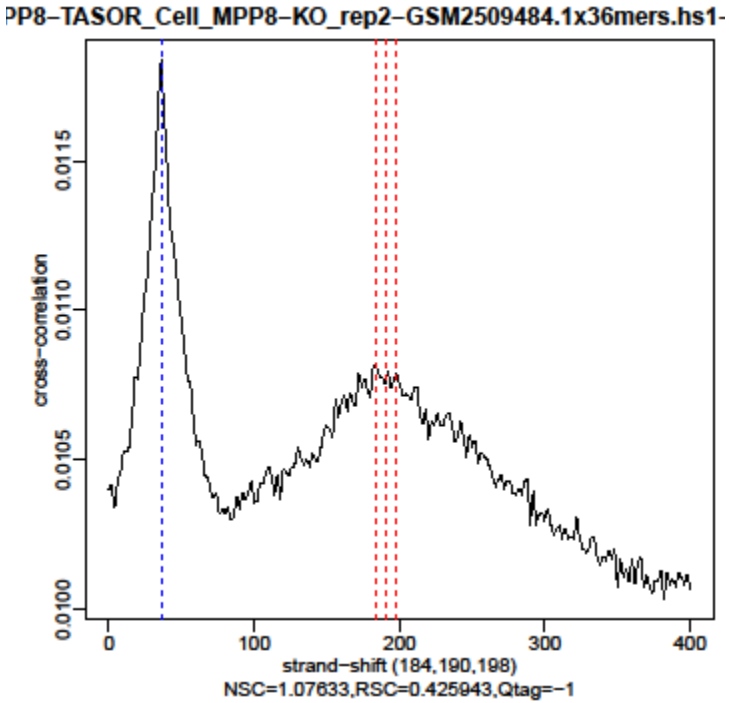

I3K9me3_Cell_WT_rep1-GSM2509493.1x36mers.hs1-T2T-CHM
cross-correlation
0.0058
0.0060
0.0062
0.0064
0.0066
0.0068
0
100
200
300
400
strand-shift (166,178,186)
NSC=1.14659,RSC=0.716849,Qtag=0

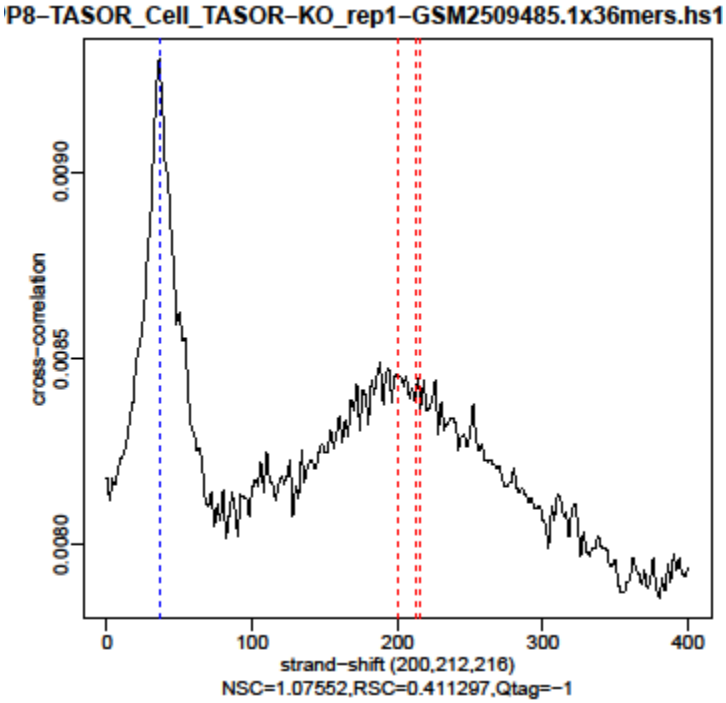

I3K9me3_Cell_WT_rep2-GSM2509494.1x36mers.hs1-T2T-CHM
cross-correlation
0.0070
0.0075
0.0080
0
100
200
300
400
strand-shift (166,178,196)
NSC=1.12137,RSC=0.549622,Qtag=0

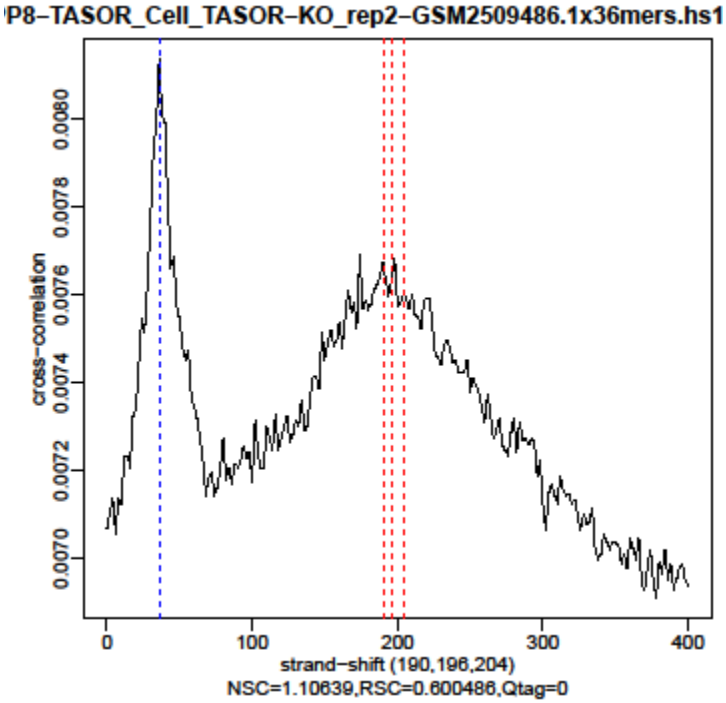

P8-TASOR_Cell_MORC2-KO_rep1-GSM2509481.1x36mers.hs1
cross-correlation
0.0110
0.0115
0.0120
0.0125
0
100
200
300
400
strand-shift (210,214,222)
NSC=1.10949,RSC=0.596584,Qtag=0

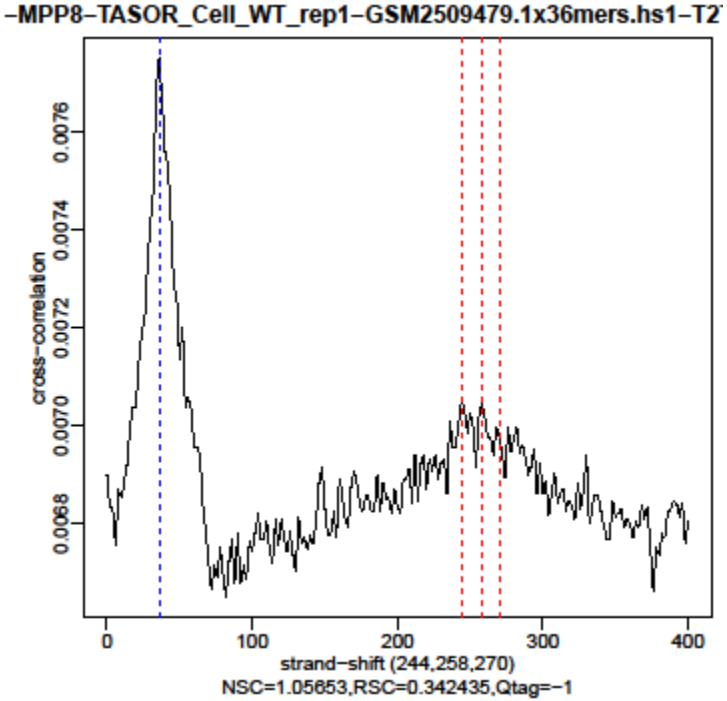

P8-TASOR_Cell_MORC2-KO_rep2-GSM2509482.1x36mers.hs1
cross-correlation
0.0100
0.0105
0.0110
0.0115
0
100
200
300
400
strand-shift (218,228,246)
NSC=1.15642,RSC=0.759948,Qtag=0

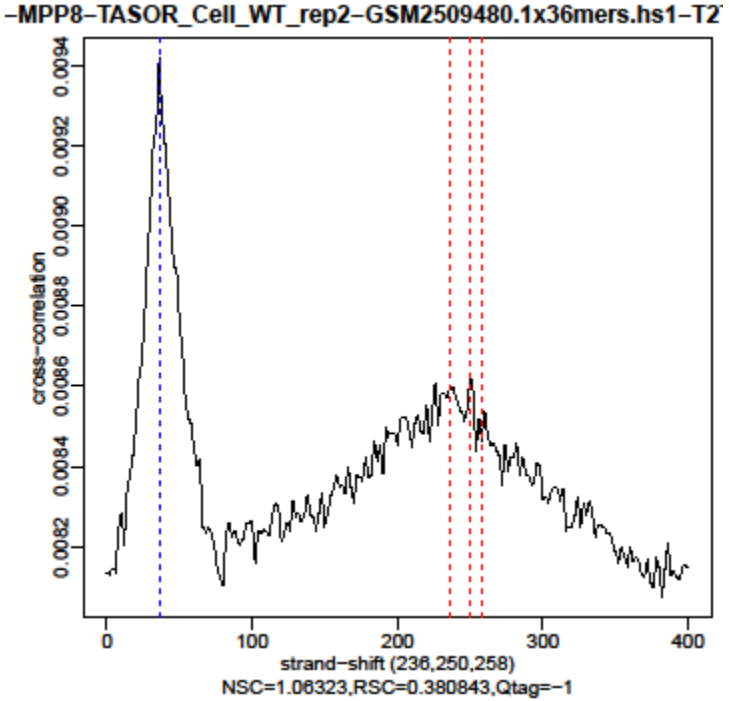

PP8–TASOR_Cell_MPP8–KO_rep1–GSM2509483.1x36mers.hs1-
cross–correlation
0.0135
0.0140
0.0145
0.0150
0.0155
0.0160
0.0165
0
100
200
300
400
strand–shift (212,222,218)
NSC=1.22638,RSC=1.07385,Qtag=1

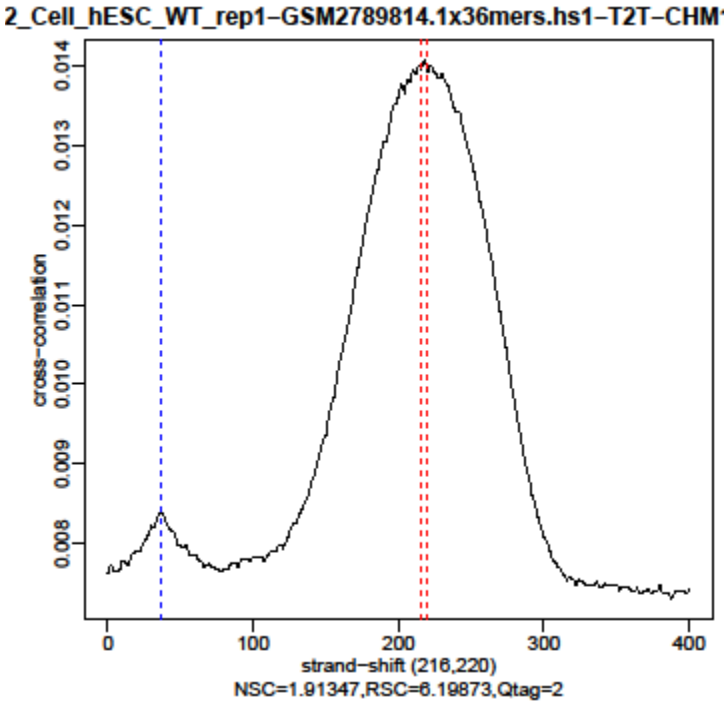

PP8–TASOR_Cell_MPP8–KO_rep2–GSM2509484.1x36mers.hs1-
cross–correlation
0.0100
0.0105
0.0110
0.0115
0
100
200
300
400
strand–shift (184,190,198)
NSC=1.07633,RSC=0.425943,Qtag=–1

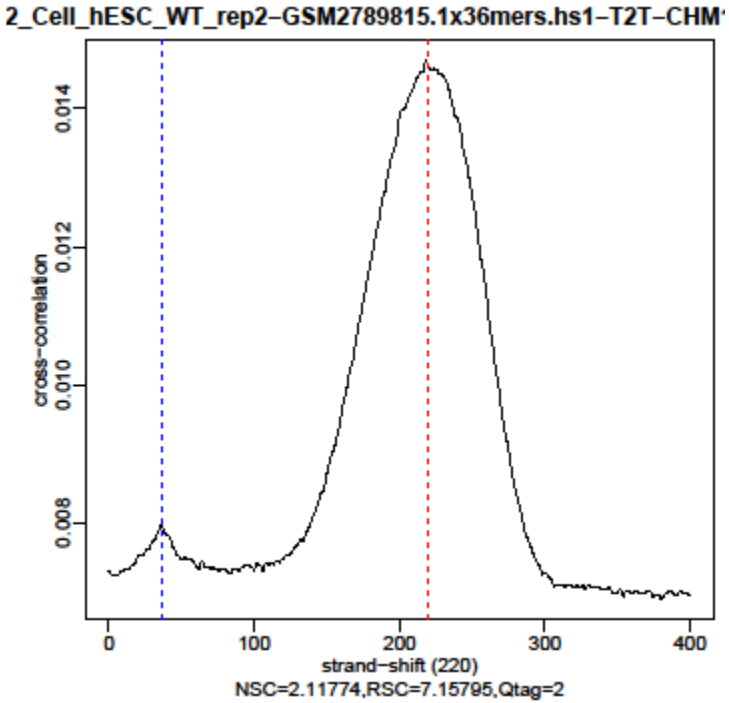

P8-TASOR_Cell_TASOR-KO_rep1-GSM2509485.1x36mers.hs1
cross-correlation
0.0090
0.0085
0.0080
0
100
200
300
400
strand-shift (200,212,216)
NSC=1.07552,RSC=0.411297,Qtag=-1

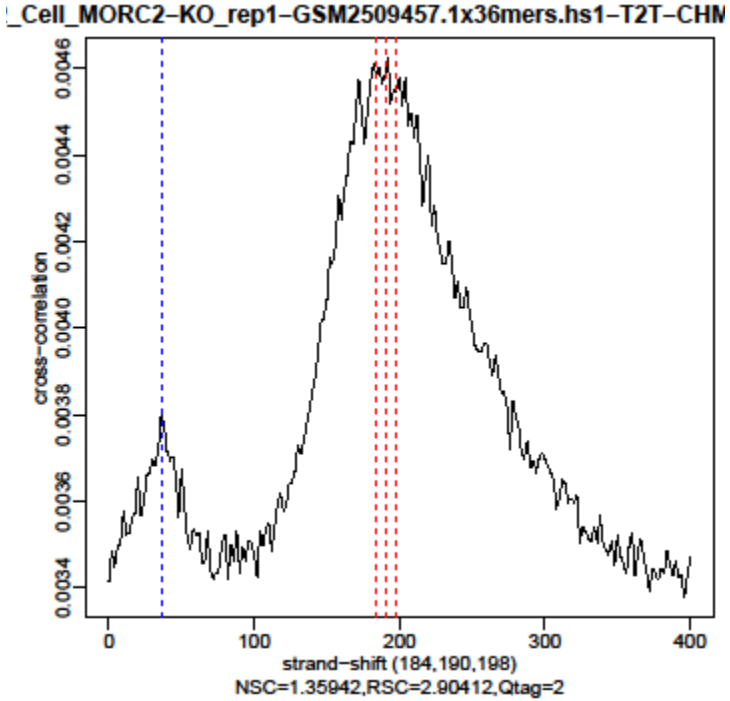

P8-TASOR_Cell_TASOR-KO_rep2-GSM2509486.1x36mers.hs1
cross-correlation
0.0080
0.0078
0.0076
0.0074
0.0072
0.0070
0
100
200
300
400
strand-shift (190,196,204)
NSC=1.10639,RSC=0.600486,Qtag=0

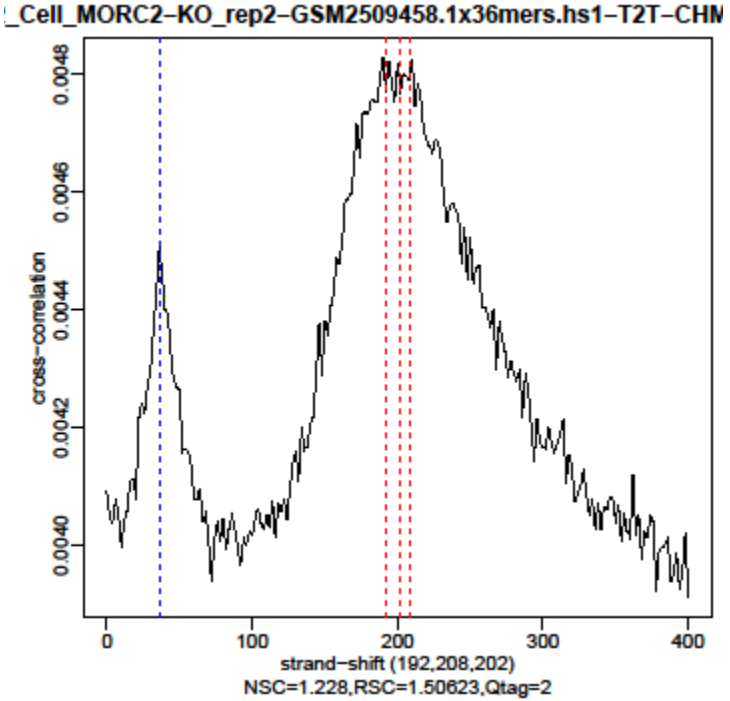

–MPP8–TASOR_Cell_WT_rep1–GSM2509479.1x36mers.hs1–T2
cross–correlation
0.0068
0.0070
0.0072
0.0074
0.0076
0
100
200
300
400
strand–shift (244,258,270)
NSC=1.05653,RSC=0.342435,Qtag=–1

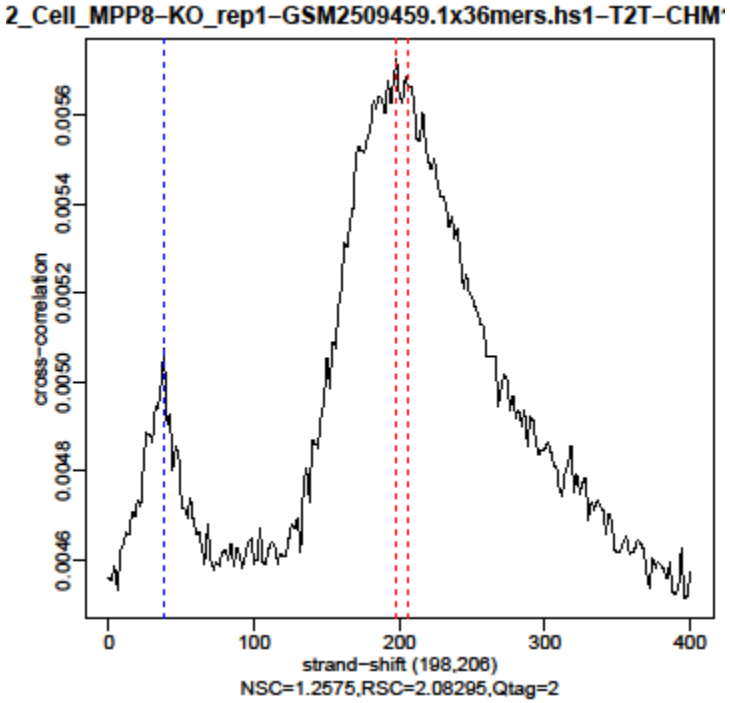

–MPP8–TASOR_Cell_WT_rep2–GSM2509480.1x36mers.hs1–T2
cross–correlation
0.0082
0.0084
0.0086
0.0088
0.0090
0.0092
0.0094
0
100
200
300
400
strand–shift (236,250,258)
NSC=1.06323,RSC=0.380843,Qtag=–1

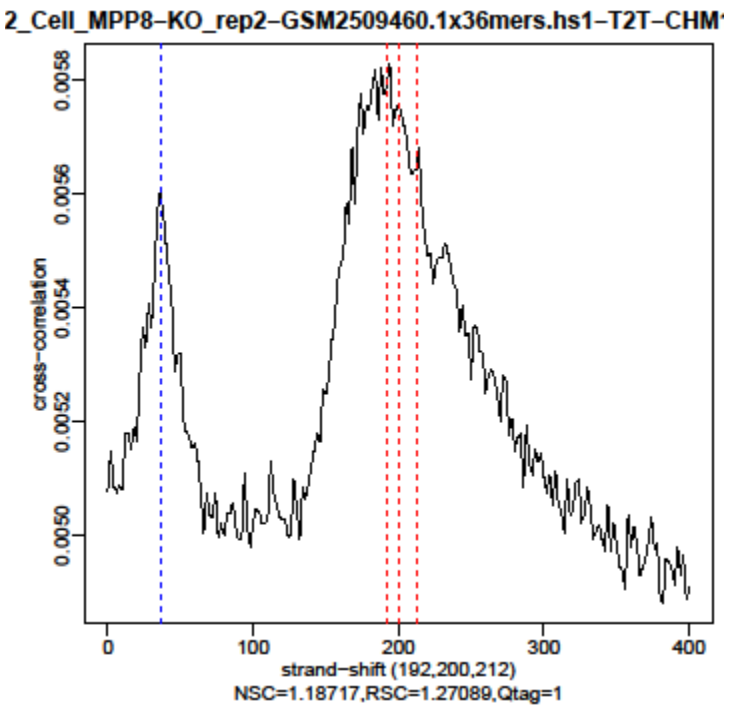

2_Cell_hESC_WT_rep1-GSM2789814.1x36mers.hs1-T2T-CHM
cross-correlation
0.008
0.009
0.010
0.011
0.012
0.013
0.014
0
100
200
300
400
strand-shift (216,220)
NSC=1.91347,RSC=6.19873,Qtag=2

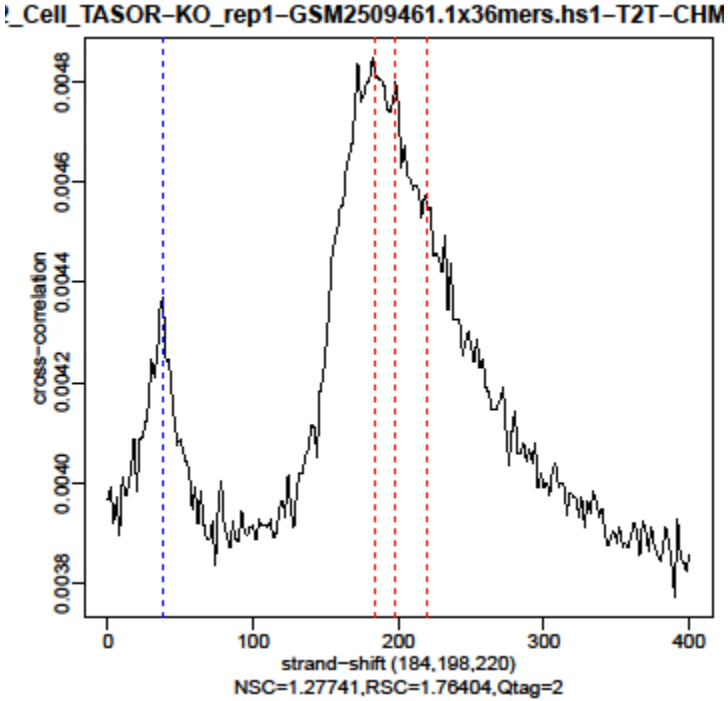

2_Cell_hESC_WT_rep2-GSM2789815.1x36mers.hs1-T2T-CHM
cross-correlation
0.008
0.010
0.012
0.014
0
100
200
300
400
strand-shift (220)
NSC=2.11774,RSC=7.15795,Qtag=2

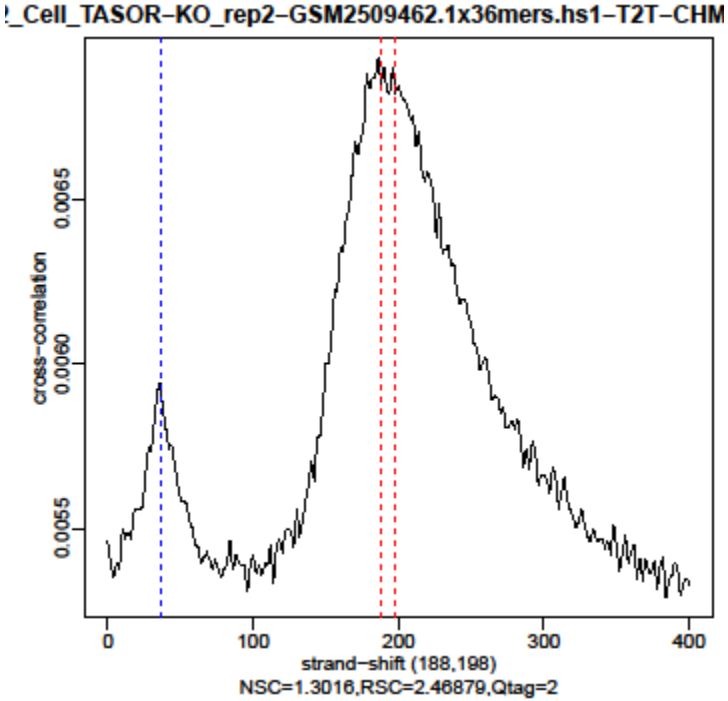

_Cell_MORC2-KO_rep1-GSM2509457.1x36mers.hs1-T2T-CHM
cross-correlation
0.0034
0.0036
0.0038
0.0040
0.0042
0.0044
0.0046
0
100
200
300
400
strand-shift (184,190,198)
NSC=1.35942,RSC=2.90412,Qtag=2

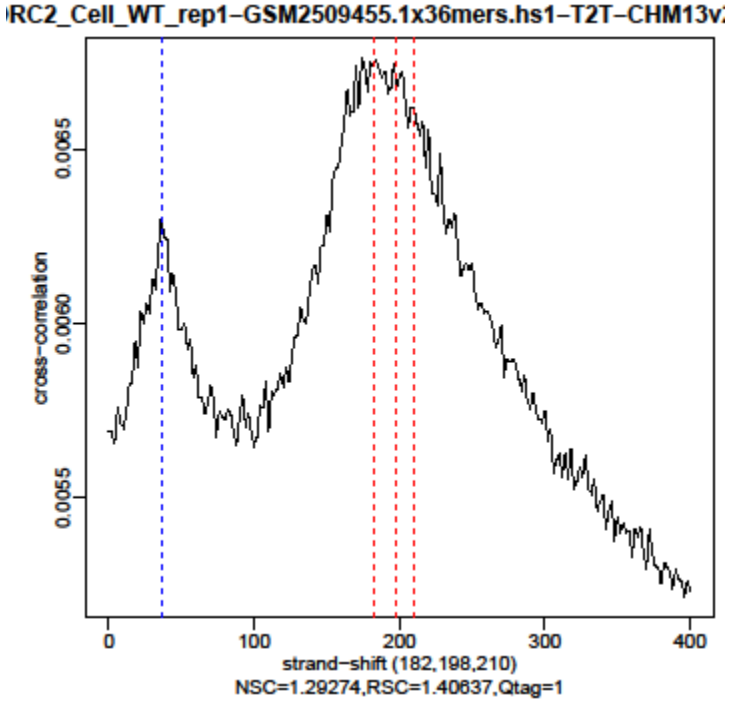

_Cell_MORC2-KO_rep2-GSM2509458.1x36mers.hs1-T2T-CHM
cross-correlation
0.0040
0.0042
0.0044
0.0046
0.0048
0
100
200
300
400
strand-shift (192,208,202)
NSC=1.228,RSC=1.50623,Qtag=2

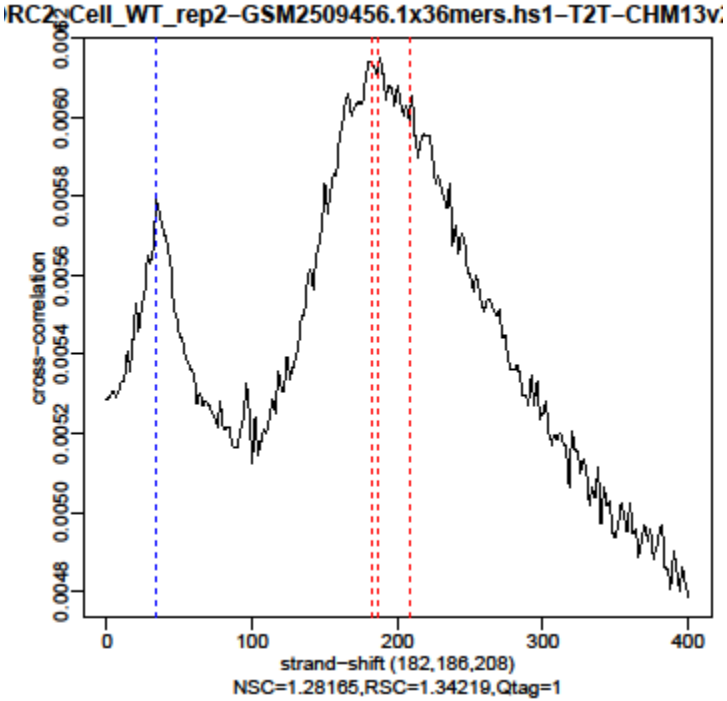

2_Cell_MPP8-KO_rep1-GSM2509459.1x36mers.hs1-T2T-CHM
cross-correlation
0.0046
0.0048
0.0050
0.0052
0.0054
0.0056
0
100
200
300
400
strand-shift (198,206)
NSC=1.2575,RSC=2.08295,Qtag=2

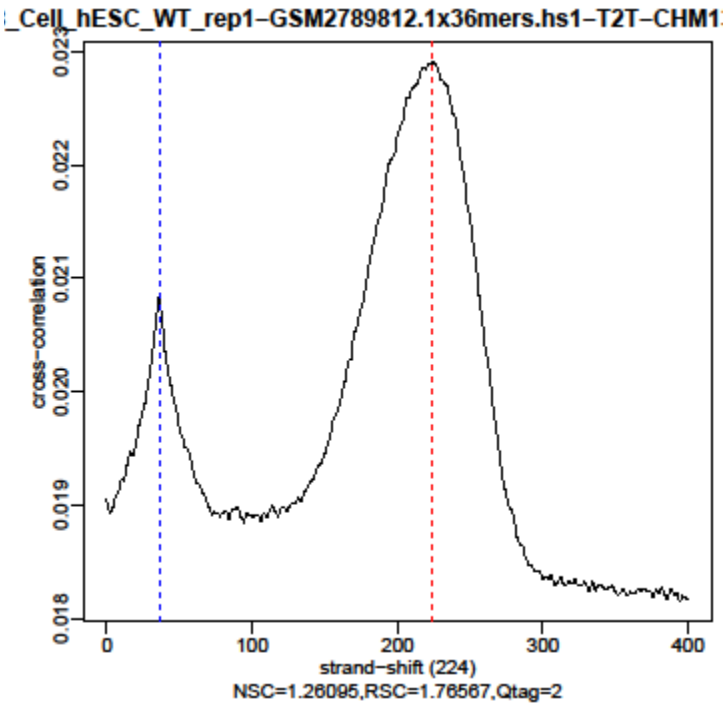

2_Cell_MPP8-KO_rep2-GSM2509460.1x36mers.hs1-T2T-CHM
cross-correlation
0.0050
0.0052
0.0054
0.0056
0.0058
0
100
200
300
400
strand-shift (192,200,212)
NSC=1.18717,RSC=1.27089,Qtag=1

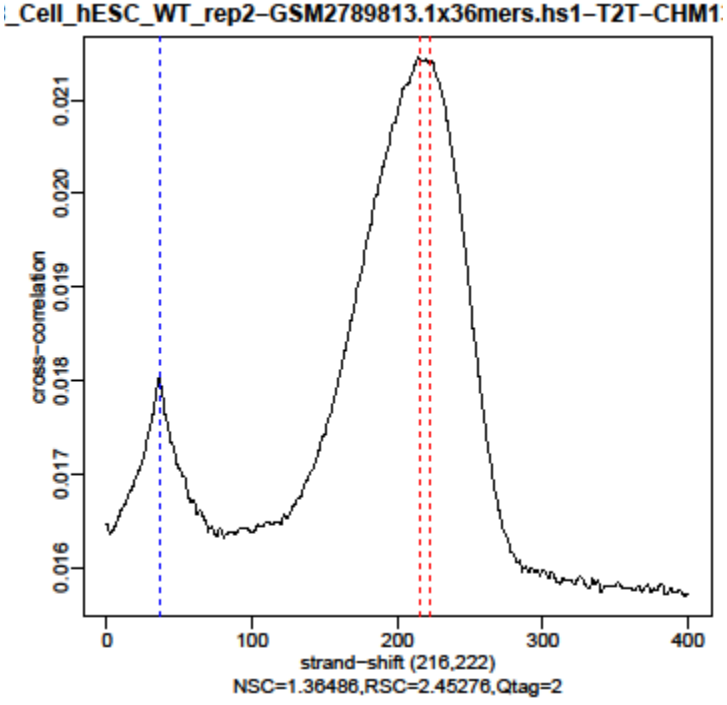

!_Cell_TASOR-KO_rep1-GSM2509461.1x36mers.hs1-T2T-CHM
cross-correlation
0.0038
0.0040
0.0042
0.0044
0.0046
0.0048
0
100
200
300
400
strand-shift (184,198,220)
NSC=1.27741,RSC=1.76404,Qtag=2

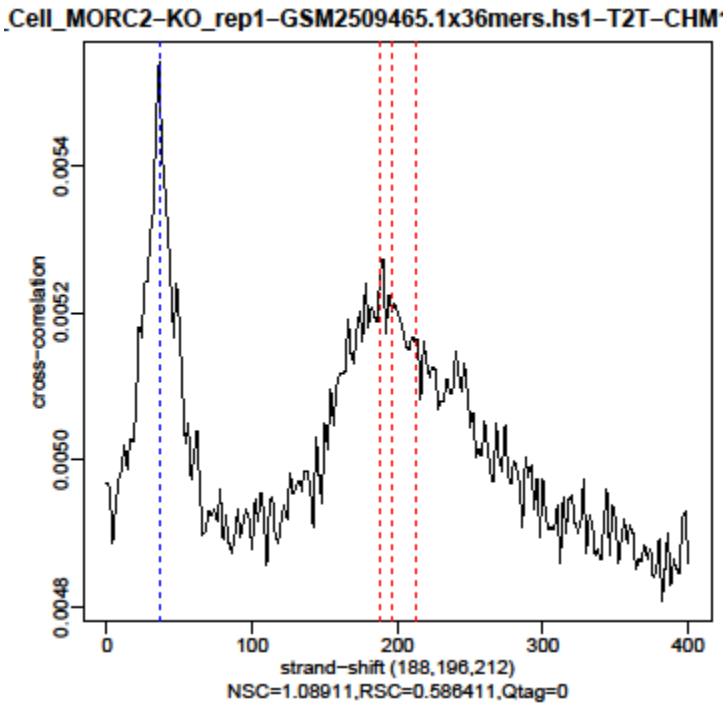

!_Cell_TASOR-KO_rep2-GSM2509462.1x36mers.hs1-T2T-CHM
cross-correlation
0.0055
0.0060
0.0065
0
100
200
300
400
strand-shift (188,198)
NSC=1.3016,RSC=2.46879,Qtag=2

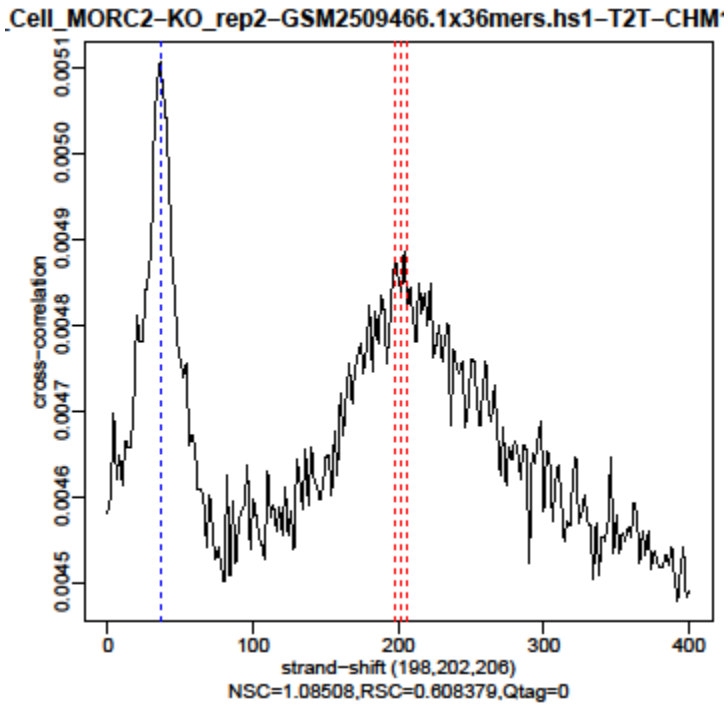

RC2_Cell_WT_rep1-GSM2509455.1x36mers.hs1-T2T-CHM13v
cross-correlation
0.0055
0.0060
0.0065
0
100
200
300
400
strand-shift (182,198,210)
NSC=1.29274,RSC=1.40637,Qtag=1

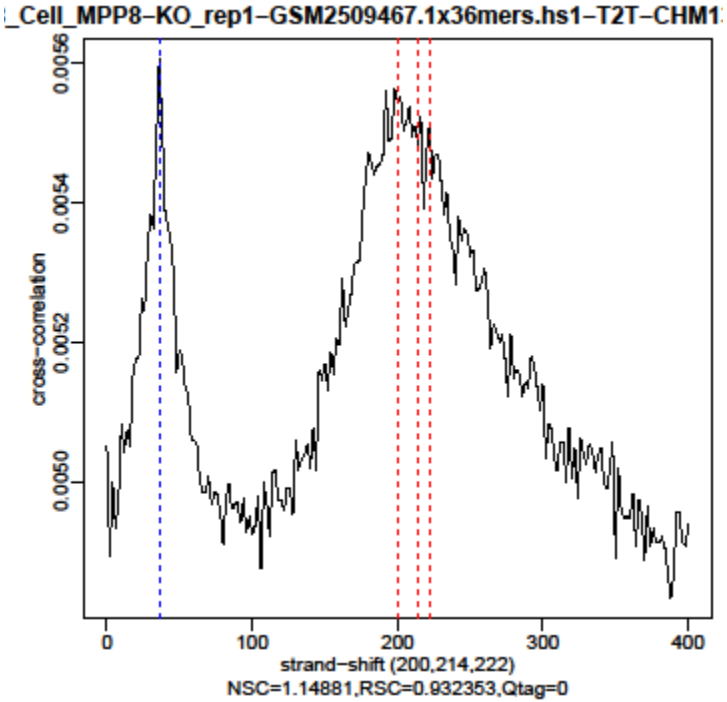

RC2_Cell_WT_rep2-GSM2509456.1x36mers.hs1-T2T-CHM13v
cross-correlation
0.0048
0.0050
0.0052
0.0054
0.0056
0.0058
0.0060
0
100
200
300
400
strand-shift (182,186,208)
NSC=1.28165,RSC=1.34219,Qtag=1

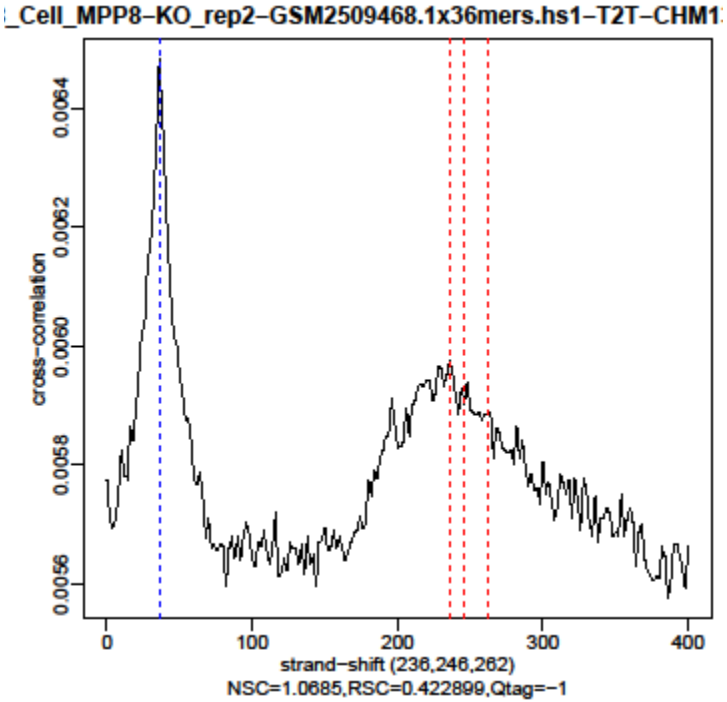

_Cell_hESC_WT_rep1-GSM2789812.1x36mers.hs1-T2T-CHM1
cross-correlation
0.018
0.019
0.020
0.021
0.022
0
100
200
300
400
strand-shift (224)
NSC=1.26095,RSC=1.76567,Qtag=2

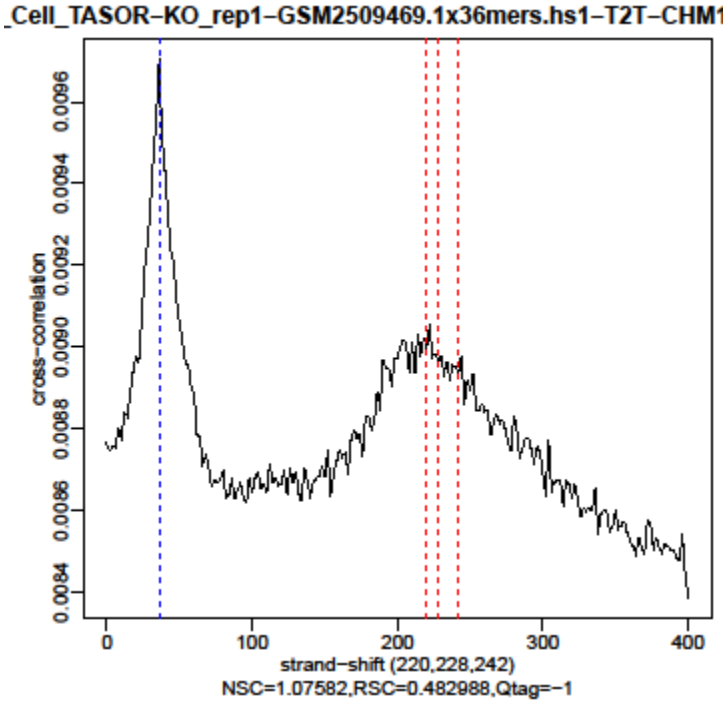

_Cell_hESC_WT_rep2-GSM2789813.1x36mers.hs1-T2T-CHM1
cross-correlation
0.016
0.017
0.018
0.019
0.020
0.021
0
100
200
300
400
strand-shift (216,222)
NSC=1.36486,RSC=2.45276,Qtag=2

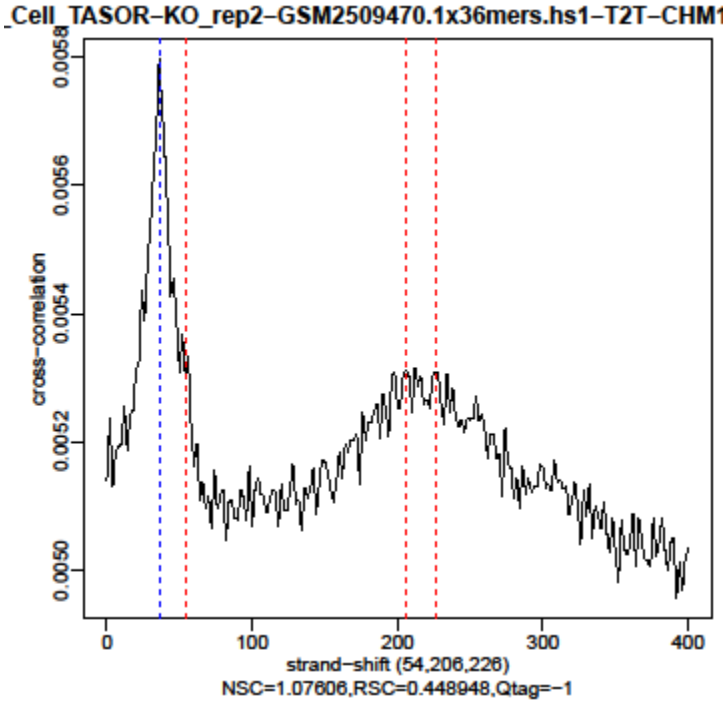

Cell_MORC2-KO_rep1-GSM2509465.1x36mers.hs1-T2T-CHM
cross-correlation
0.0048
0.0050
0.0052
0.0054
0
100
200
300
400
strand-shift (188,196,212)
NSC=1.08911,RSC=0.586411,Qtag=0

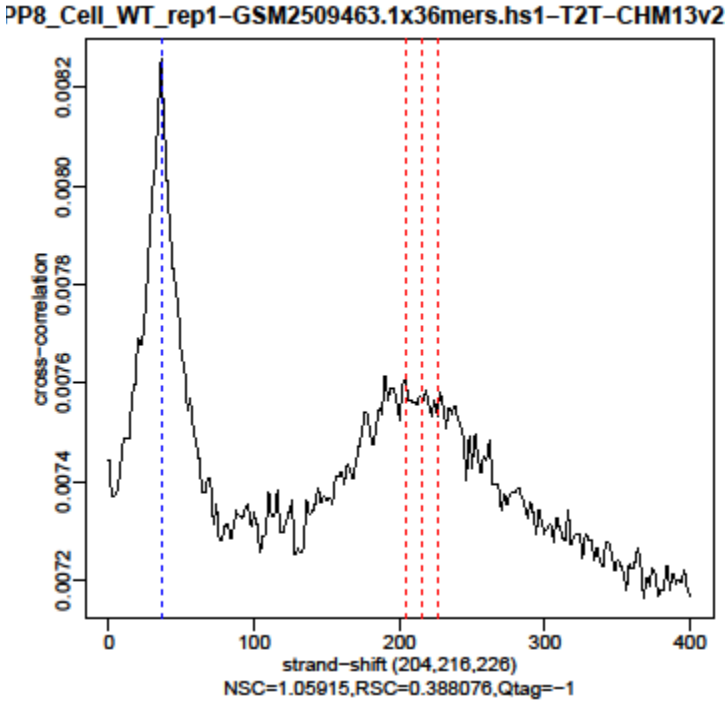

Cell_MORC2-KO_rep2-GSM2509466.1x36mers.hs1-T2T-CHM
cross-correlation
0.0045
0.0046
0.0047
0.0048
0.0049
0.0050
0.0051
0
100
200
300
400
strand-shift (198,202,206)
NSC=1.08508,RSC=0.608379,Qtag=0

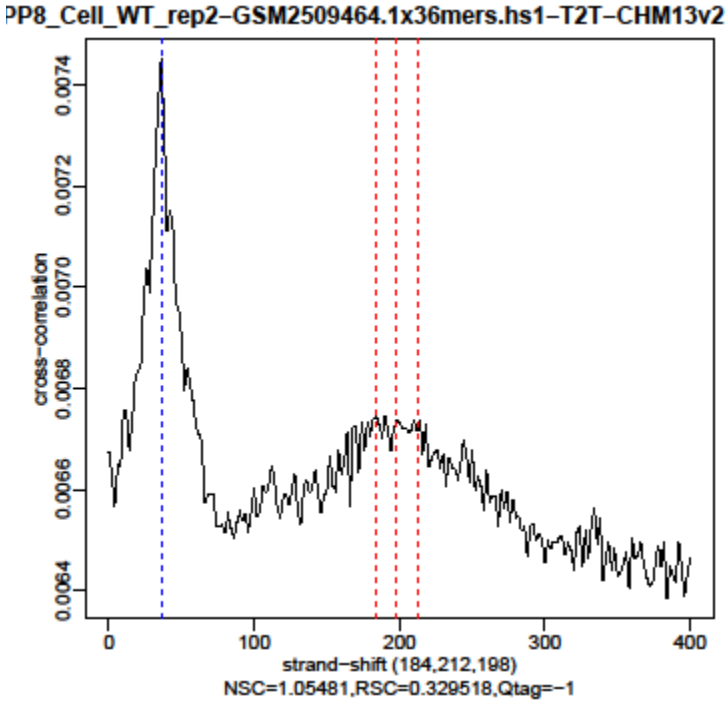

_Cell_MPP8-KO_rep1-GSM2509467.1x36mers.hs1-T2T-CHM1
cross-correlation
0.0050
0.0052
0.0054
0.0056
0
100
200
300
400
strand-shift (200,214,222)
NSC=1.14881,RSC=0.932353,Qtag=0

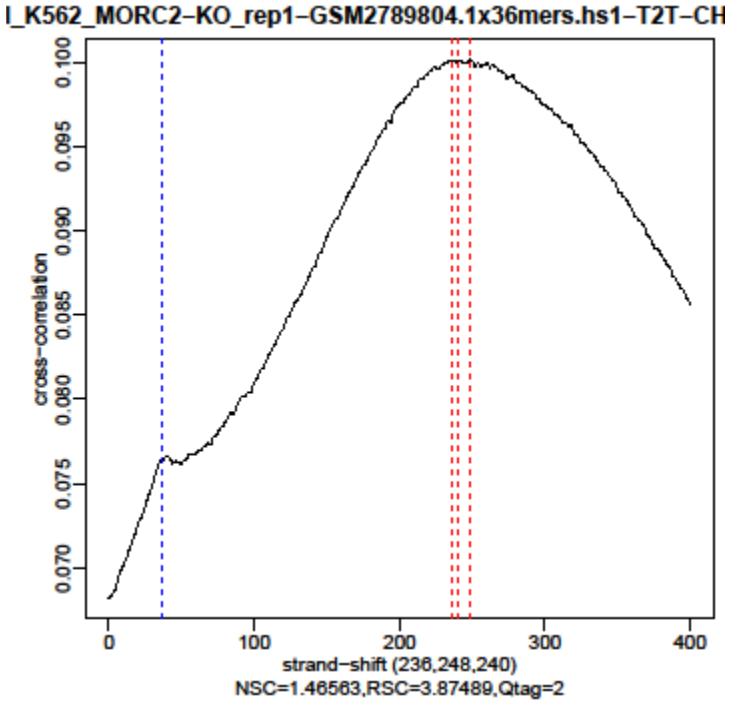

_Cell_MPP8-KO_rep2-GSM2509468.1x36mers.hs1-T2T-CHM1
cross-correlation
0.0056
0.0058
0.0060
0.0062
0.0064
0
100
200
300
400
strand-shift (236,246,262)
NSC=1.0685,RSC=0.422899,Qtag=-1

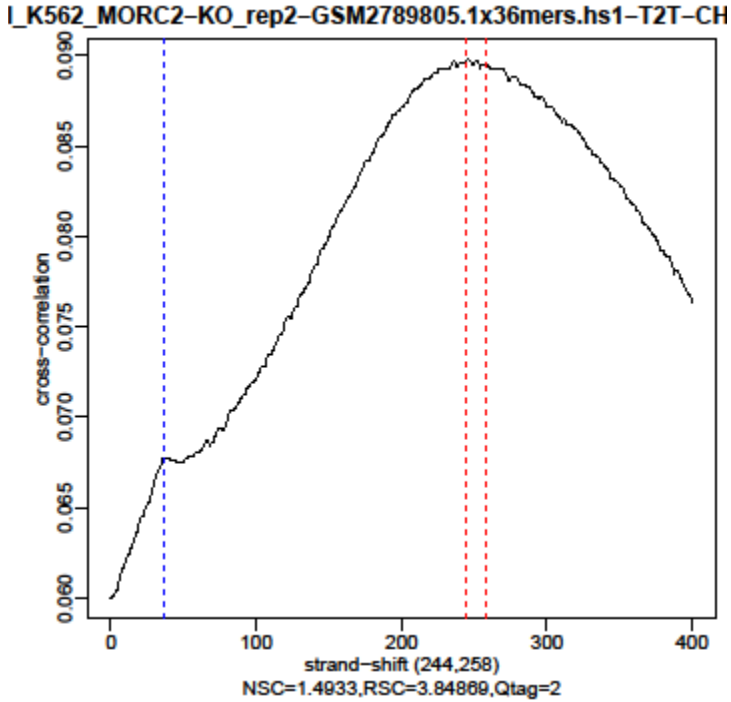

_Cell_TASOR-KO_rep1-GSM2509469.1x36mers.hs1-T2T-CHM1
cross-correlation
0.0084
0.0086
0.0088
0.0090
0.0092
0.0094
0.0096
0
100
200
300
400
strand-shift (220,228,242)
NSC=1.07582,RSC=0.482988,Qtag=-1

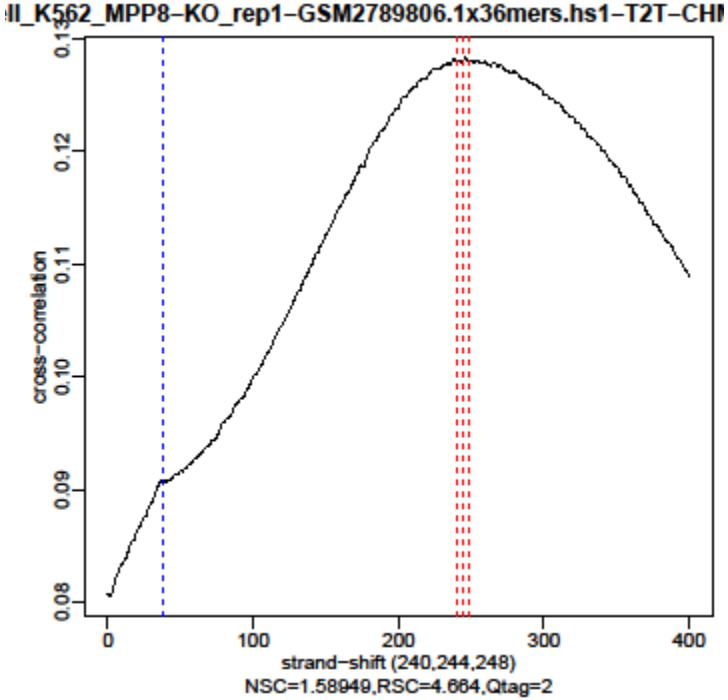

_Cell_TASOR-KO_rep2-GSM2509470.1x36mers.hs1-T2T-CHM1
cross-correlation
0.0050
0.0052
0.0054
0.0056
0.0058
0
100
200
300
400
strand-shift (54,206,226)
NSC=1.07606,RSC=0.448948,Qtag=-1

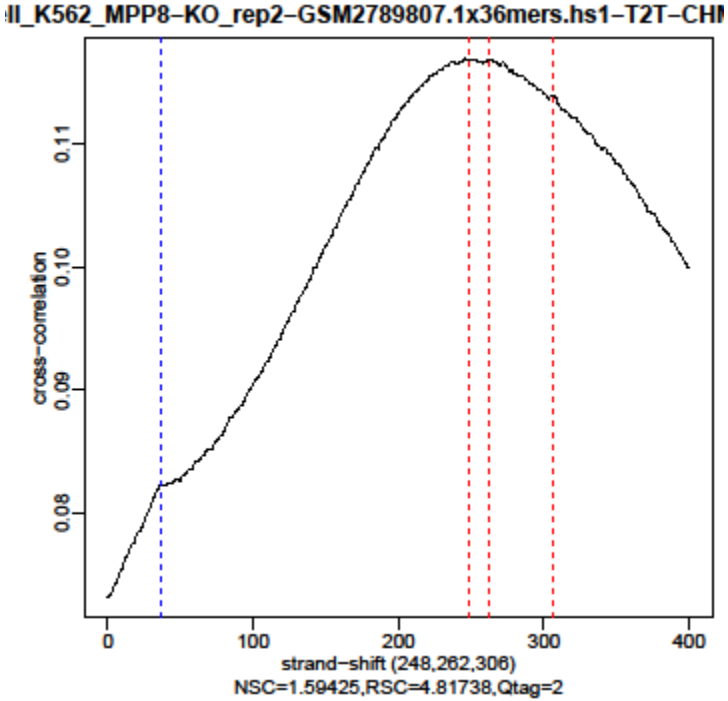

PP8_Cell_WT_rep1-GSM2509463.1x36mers.hs1-T2T-CHM13v2
cross-correlation
0.0072
0.0074
0.0076
0.0078
0.0080
0.0082
0
100
200
300
400
strand-shift (204,216,226)
NSC=1.05915,RSC=0.388076,Qtag=-1

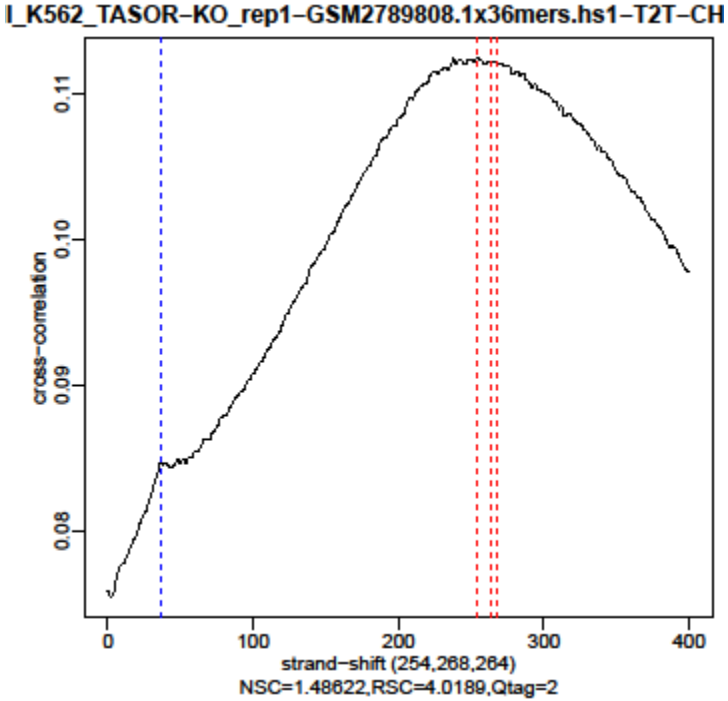

PP8_Cell_WT_rep2-GSM2509464.1x36mers.hs1-T2T-CHM13v2
cross-correlation
0.0064
0.0066
0.0068
0.0070
0.0072
0.0074
0
100
200
300
400
strand-shift (184,212,198)
NSC=1.05481,RSC=0.329518,Qtag=-1

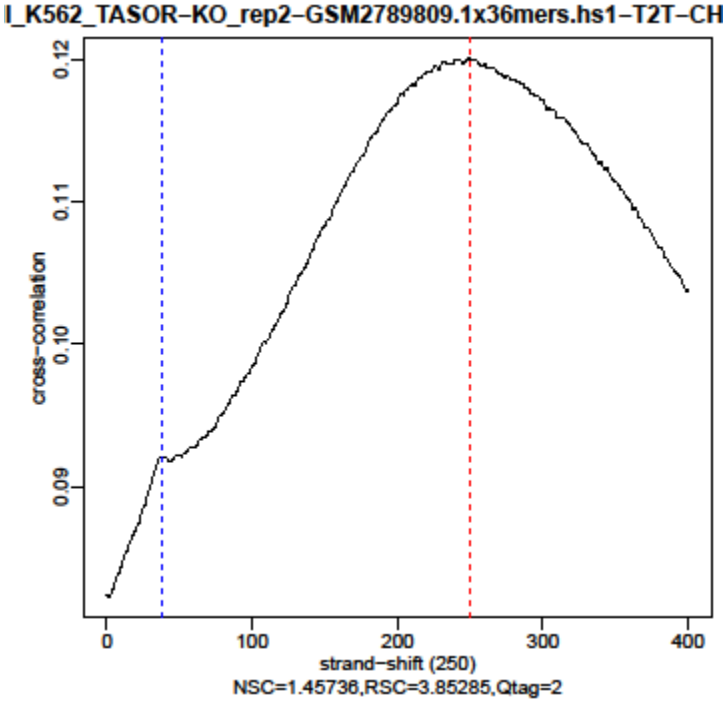

l_K562_MORC2-KO_rep1-GSM2789804.1x36mers.hs1-T2T-CH
cross-correlation
0.070
0.075
0.080
0.085
0.090
0.095
0.100
0
100
200
300
400
strand-shift (236,248,240)
NSC=1.46563,RSC=3.87489,Qtag=2

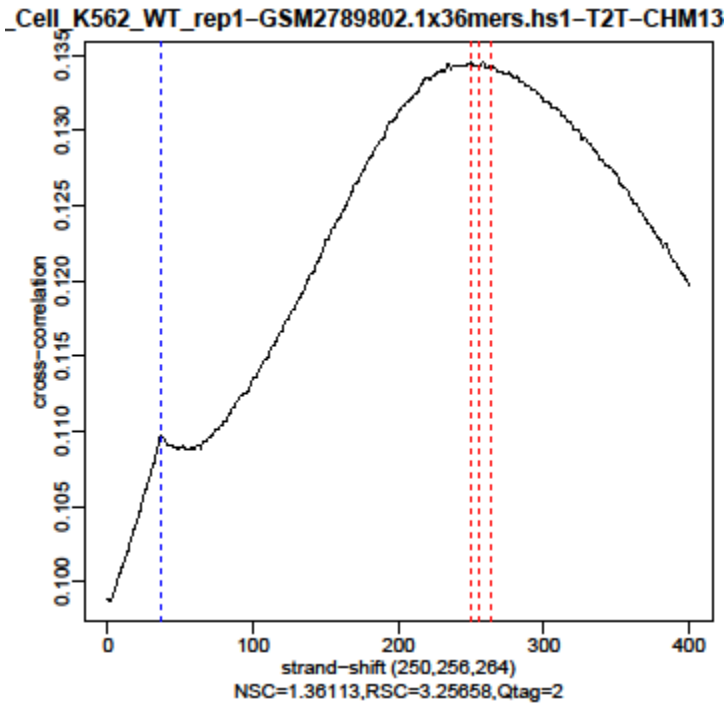

l_K562_MORC2-KO_rep2-GSM2789805.1x36mers.hs1-T2T-CH
cross-correlation
0.060
0.065
0.070
0.075
0.080
0.085
0.090
0
100
200
300
400
strand-shift (244,258)
NSC=1.4933,RSC=3.84869,Qtag=2

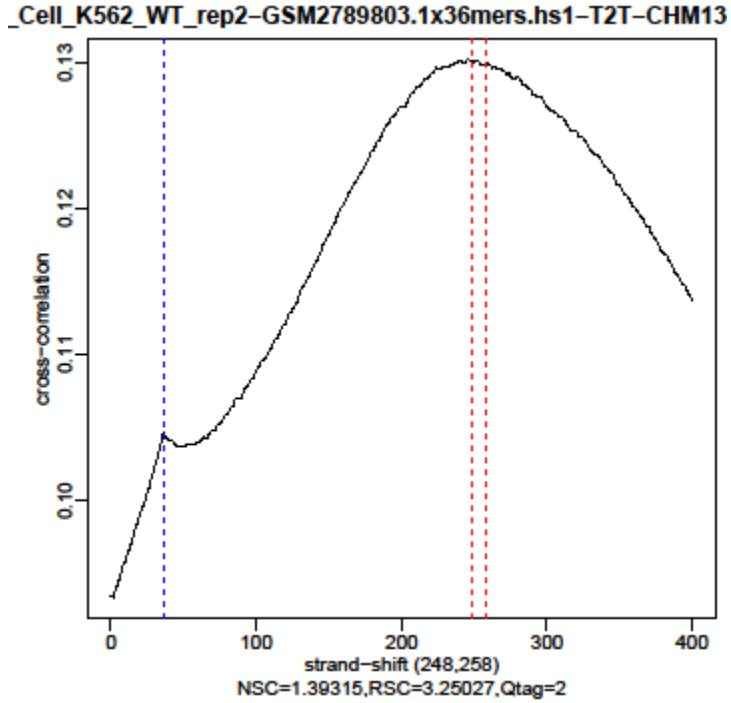

ll_K562_MPP8-KO_rep1-GSM2789806.1x36mers.hs1-T2T-CHI
cross-correlation
0.08
0.09
0.10
0.11
0.12
0
100
200
300
400
strand-shift (240,244,248)
NSC=1.58949,RSC=4.664,Qtag=2

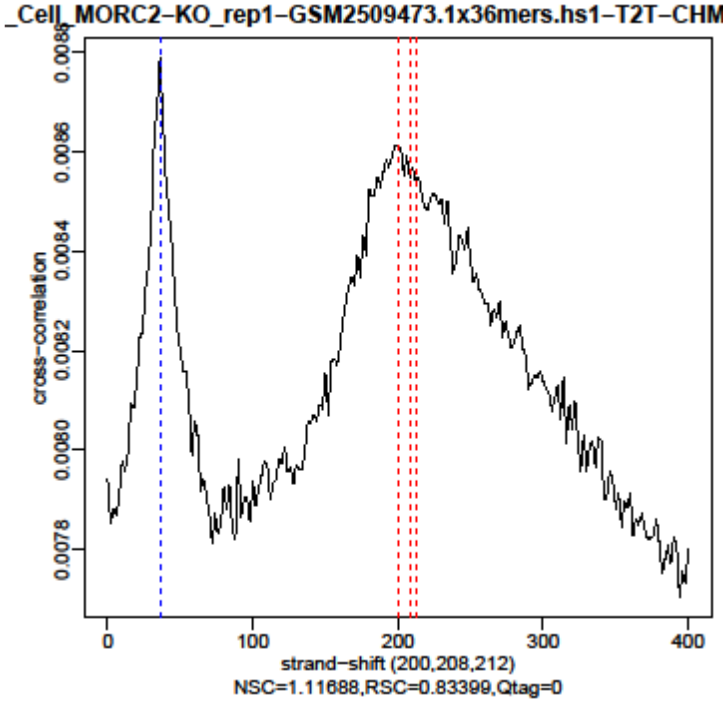

ll_K562_MPP8-KO_rep2-GSM2789807.1x36mers.hs1-T2T-CHI
cross-correlation
0.08
0.09
0.10
0.11
0
100
200
300
400
strand-shift (248,262,306)
NSC=1.59425,RSC=4.81738,Qtag=2

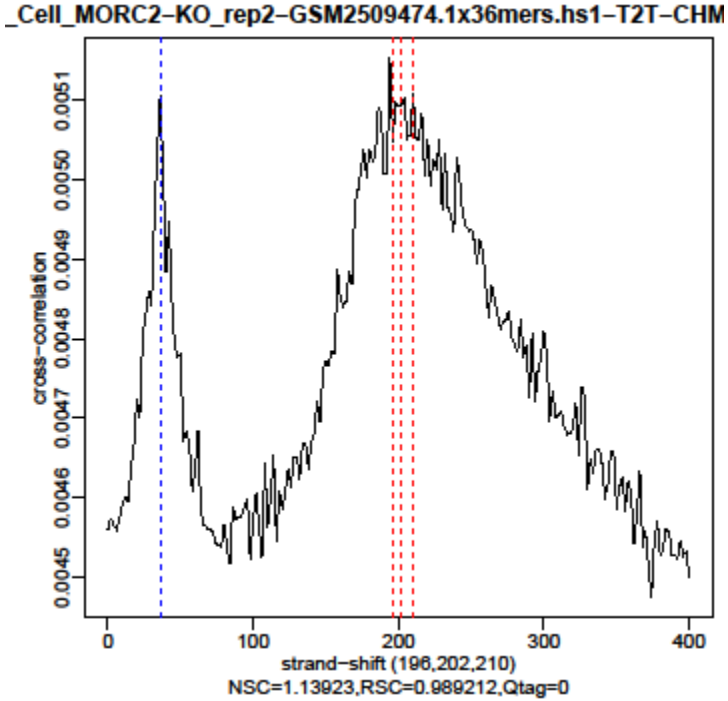

I_K562_TASOR-KO_rep1-GSM2789808.1x36mers.hs1-T2T-CH
cross-correlation
0.08
0.09
0.10
0.11
0
100
200
300
400
strand-shift (254,268,264)
NSC=1.48622,RSC=4.0189,Qtag=2

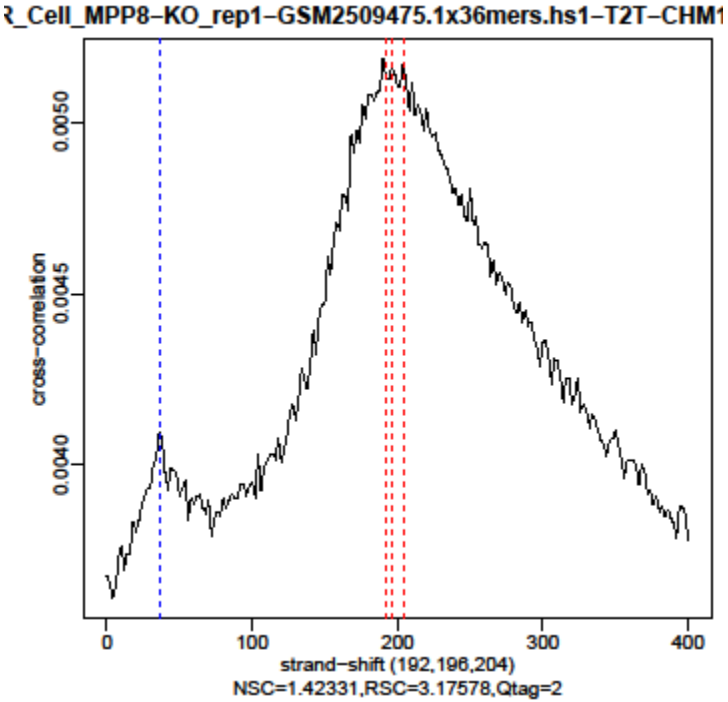

I_K562_TASOR-KO_rep2-GSM2789809.1x36mers.hs1-T2T-CH
cross-correlation
0.09
0.10
0.11
0.12
0
100
200
300
400
strand-shift (250)
NSC=1.45736,RSC=3.85285,Qtag=2

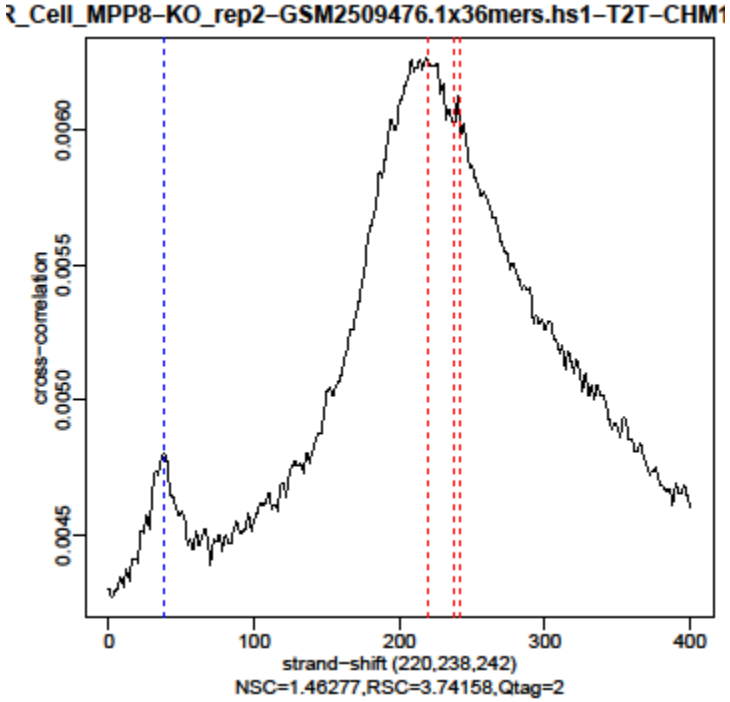

_Cell_K562_WT_rep1-GSM2789802.1x36mers.hs1-T2T-CHM13
cross-correlation
0.100
0.105
0.110
0.115
0.120
0.125
0.130
0.135
0
100
200
300
400
strand-shift (250,256,264)
NSC=1.36113,RSC=3.25658,Qtag=2

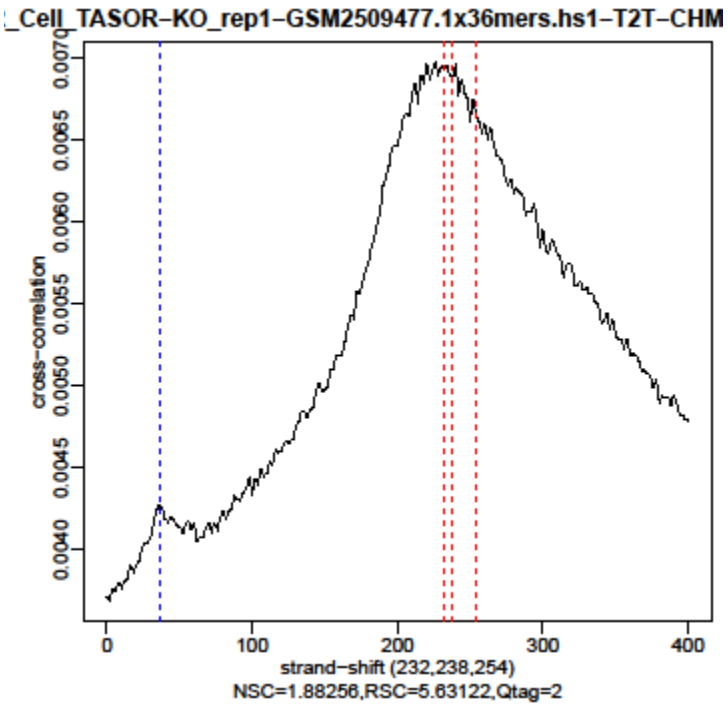

_Cell_K562_WT_rep2-GSM2789803.1x36mers.hs1-T2T-CHM13
cross-correlation
0.10
0.11
0.12
0.13
0
100
200
300
400
strand-shift (248,258)
NSC=1.39315,RSC=3.25027,Qtag=2

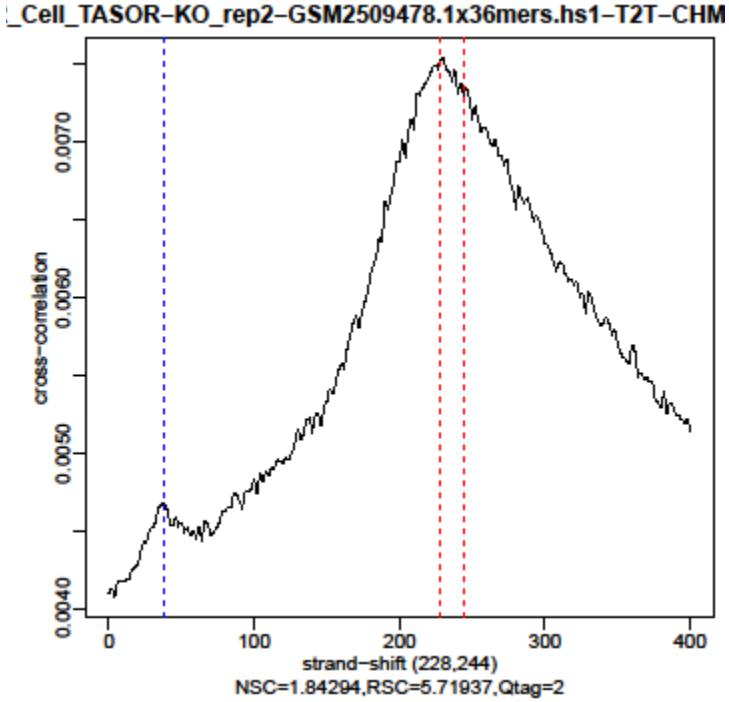

_Cell_MORC2-KO_rep1-GSM2509473.1x36mers.hs1-T2T-CHM
cross-correlation
0.0078
0.0080
0.0082
0.0084
0.0086
0.0088
0
100
200
300
400
strand-shift (200,208,212)
NSC=1.11688,RSC=0.83399,Qtag=0

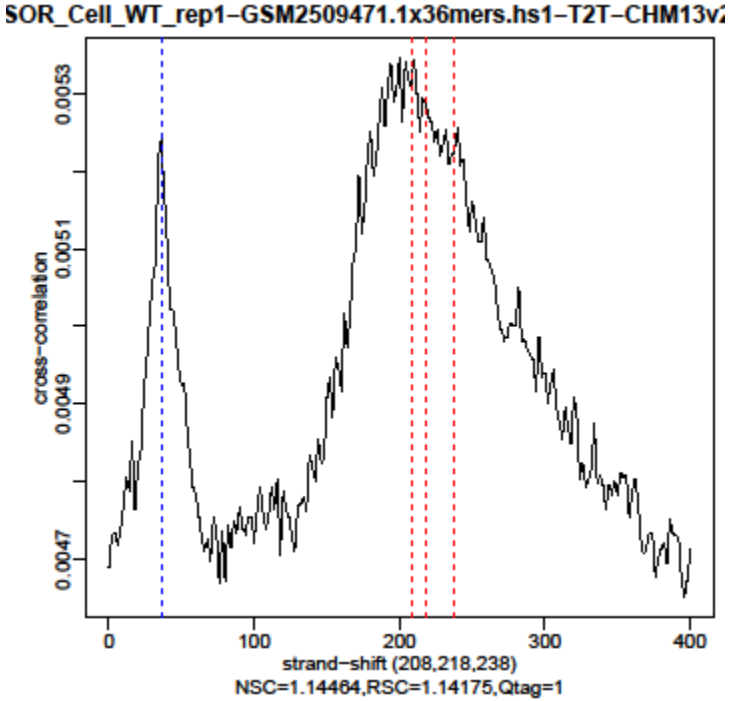

_Cell_MORC2-KO_rep2-GSM2509474.1x36mers.hs1-T2T-CHM
cross-correlation
0.0045
0.0046
0.0047
0.0048
0.0049
0.0050
0.0051
0
100
200
300
400
strand-shift (196,202,210)
NSC=1.13923,RSC=0.989212,Qtag=0

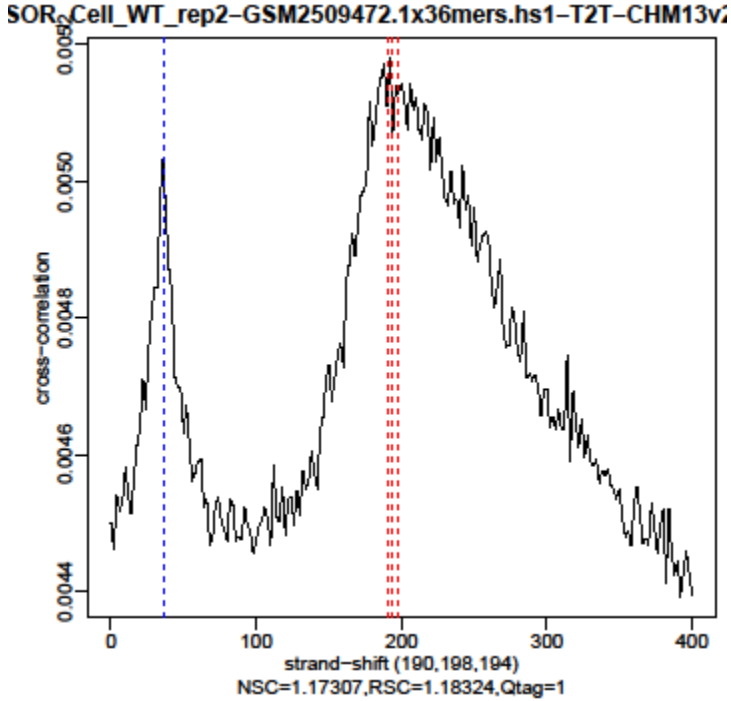

R_Cell_MPP8-KO_rep1-GSM2509475.1x36mers.hs1-T2T-CHM1
cross-correlation
0.0040
0.0045
0.0050
0
100
200
300
400
strand-shift (192,196,204)
NSC=1.42331,RSC=3.17578,Qtag=2


R_Cell_MPP8-KO_rep2-GSM2509476.1x36mers.hs1-T2T-CHM1
cross-correlation
0.0045
0.0050
0.0055
0.0060
0
100
200
300
400
strand-shift (220,238,242)
NSC=1.46277,RSC=3.74158,Qtag=2


_Cell_TASOR-KO_rep1-GSM2509477.1x36mers.hs1-T2T-CHM
cross-correlation
0.0040
0.0045
0.0050
0.0055
0.0060
0.0065
0.0070
0
100
200
300
400
strand-shift (232,238,254)
NSC=1.88256,RSC=5.63122,Qtag=2


_Cell_TASOR-KO_rep2-GSM2509478.1x36mers.hs1-T2T-CHM
cross-correlation
0.0040
0.0050
0.0060
0.0070
0
100
200
300
400
strand-shift (228,244)
NSC=1.84294,RSC=5.71937,Qtag=2


SOR_Cell_WT_rep1-GSM2509471.1x36mers.hs1-T2T-CHM13v2
cross-correlation
0.0047
0.0049
0.0051
0.0053
0
100
200
300
400
strand-shift (208,218,238)
NSC=1.14464,RSC=1.14175,Qtag=1


SOR_Cell_WT_rep2-GSM2509472.1x36mers.hs1-T2T-CHM13v2
cross-correlation
0.0044
0.0046
0.0048
0.0050
0.0052
0
100
200
300
400
strand-shift (190,198,194)
NSC=1.17307,RSC=1.18324,Qtag=1

Peak overlap (2x75mers post-IDR)

#DataSet:	Regions	H3K9me2_MPP8-KO	H3K9me2_WT	H3K9me3_MORC2-KO	H3K9me3_MPP8-KO	H3K9me3_TASOR-KO	H3K9me3_WT	MORC2_MORC2-KO	MORC2_MPP8-KO	MORC2_TASOR-KO	MORC2_WT	MORC2_hESC_WT	MPP8_MORC2-KO	MPP8_MPP8-KO	MPP8_TASOR-KO	MPP8_WT	MPP8_hESC_WT	PolII_K562_MORC2-KO	PolII_K562_MPP8-KO	PolII_K562_TASOR-KO	PolII_K562_WT	TASOR_MORC2-KO	TASOR_MPP8-KO	TASOR_TASOR-KO	TASOR_WT
H3K9me2_MPP8-KO	22	1.00	0.36	0.41	0.45	0.27	0.55	0.00	0.14	0.09	0.00	0.09	0.09	0.05	0.05	0.05	0.05	0.00	0.00	0.09	0.00	0.09	0.09	0.05	0.00
H3K9me2_WT	111	0.07	1.00	0.23	0.23	0.13	0.27	0.00	0.05	0.04	0.03	0.04	0.04	0.02	0.02	0.03	0.02	0.09	0.12	0.12	0.15	0.04	0.03	0.02	0.02
H3K9me3_MORC2-KO	25,741	0.00	0.00	1.00	0.36	0.45	0.62	0.00	0.00	0.00	0.03	0.02	0.01	0.00	0.00	0.00	0.08	0.03	0.03	0.03	0.07	0.00	0.00	0.00	0.00
H3K9me3_MPP8-KO	16,713	0.00	0.00	0.55	1.00	0.53	0.71	0.00	0.01	0.01	0.04	0.04	0.01	0.00	0.01	0.01	0.09	0.06	0.07	0.08	0.14	0.01	0.00	0.00	0.00
H3K9me3_TASOR-KO	18,353	0.00	0.00	0.62	0.48	1.00	0.70	0.00	0.01	0.01	0.03	0.03	0.01	0.00	0.00	0.00	0.09	0.04	0.04	0.04	0.08	0.01	0.00	0.00	0.00
H3K9me3_WT	28,725	0.00	0.00	0.50	0.37	0.42	1.00	0.00	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.01	0.08	0.05	0.06	0.06	0.10	0.00	0.00	0.00	0.00
MORC2_MORC2-KO	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MORC2_MPP8-KO	236	0.01	0.02	0.58	0.64	0.56	0.63	0.00	1.00	0.64	0.63	0.56	0.07	0.06	0.05	0.08	0.40	0.46	0.47	0.45	0.60	0.03	0.03	0.03	0.06
MORC2_TASOR-KO	542	0.00	0.01	0.20	0.25	0.20	0.25	0.00	0.28	1.00	0.38	0.64	0.03	0.04	0.03	0.04	0.19	0.71	0.72	0.74	0.80	0.02	0.02	0.02	0.02
MORC2_WT	2,777	0.00	0.00	0.24	0.23	0.20	0.47	0.00	0.05	0.08	1.00	0.41	0.03	0.00	0.01	0.05	0.30	0.53	0.55	0.53	0.63	0.01	0.00	0.01	0.04
MORC2_hESC_WT	8,302	0.00	0.00	0.07	0.09	0.07	0.14	0.00	0.02	0.04	0.14	1.00	0.01	0.00	0.00	0.01	0.20	0.39	0.40	0.41	0.45	0.00	0.00	0.01	0.01
MPP8_MORC2-KO	234	0.01	0.02	0.58	0.38	0.43	0.67	0.00	0.07	0.06	0.37	0.24	1.00	0.06	0.18	0.30	0.36	0.34	0.32	0.28	0.37	0.31	0.04	0.03	0.21
MPP8_MPP8-KO	115	0.01	0.02	0.50	0.49	0.47	0.50	0.00	0.12	0.17	0.11	0.15	0.11	1.00	0.20	0.08	0.54	0.26	0.25	0.30	0.32	0.10	0.10	0.05	0.09
MPP8_TASOR-KO	196	0.01	0.01	0.32	0.41	0.35	0.48	0.00	0.06	0.08	0.09	0.14	0.20	0.12	1.00	0.15	0.39	0.20	0.27	0.22	0.28	0.09	0.05	0.05	0.05
MPP8_WT	219	0.00	0.01	0.43	0.40	0.37	0.79	0.00	0.09	0.09	0.75	0.41	0.32	0.05	0.15	1.00	0.60	0.53	0.51	0.47	0.68	0.08	0.02	0.01	0.33
MPP8_hESC_WT	7,382	0.00	0.00	0.27	0.22	0.23	0.35	0.00	0.01	0.01	0.12	0.23	0.01	0.01	0.01	0.02	1.00	0.26	0.25	0.26	0.38	0.01	0.00	0.00	0.01
PolII_K562_MORC2-KO	19,085	0.00	0.00	0.04	0.05	0.03	0.08	0.00	0.01	0.02	0.08	0.16	0.00	0.00	0.00	0.01	0.09	1.00	0.82	0.84	0.93	0.01	0.01	0.01	0.01
PolII_K562_MPP8-KO	20,279	0.00	0.00	0.03	0.05	0.03	0.08	0.00	0.01	0.02	0.07	0.15	0.00	0.00	0.00	0.01	0.08	0.77	1.00	0.82	0.92	0.01	0.01	0.01	0.01
PolII_K562_TASOR-KO	19,712	0.00	0.00	0.03	0.06	0.04	0.08	0.00	0.01	0.02	0.07	0.16	0.00	0.00	0.00	0.00	0.08	0.76	0.80	1.00	0.93	0.01	0.01	0.01	0.01
PolII_K562_WT	24,126	0.00	0.00	0.06	0.09	0.06	0.12	0.00	0.01	0.02	0.07	0.14	0.00	0.00	0.00	0.01	0.09	0.61	0.64	0.66	1.00	0.01	0.01	0.01	0.01
TASOR_MORC2-KO	360	0.01	0.01	0.34	0.25	0.26	0.41	0.00	0.01	0.03	0.09	0.11	0.20	0.03	0.05	0.05	0.11	0.33	0.33	0.34	0.36	1.00	0.31	0.29	0.36
TASOR_MPP8-KO	212	0.01	0.01	0.14	0.10	0.12	0.13	0.00	0.04	0.04	0.06	0.14	0.04	0.06	0.04	0.02	0.05	0.57	0.60	0.61	0.65	0.52	1.00	0.69	0.52
TASOR_TASOR-KO	338	0.00	0.01	0.04	0.04	0.03	0.04	0.00	0.02	0.03	0.05	0.16	0.02	0.02	0.03	0.01	0.04	0.67	0.71	0.74	0.76	0.31	0.43	1.00	0.34
TASOR_WT	264	0.00	0.01	0.25	0.21	0.22	0.44	0.00	0.05	0.05	0.40	0.31	0.19	0.04	0.04	0.27	0.33	0.68	0.70	0.67	0.78	0.49	0.42	0.44	1.00

ChromHMM state overlap

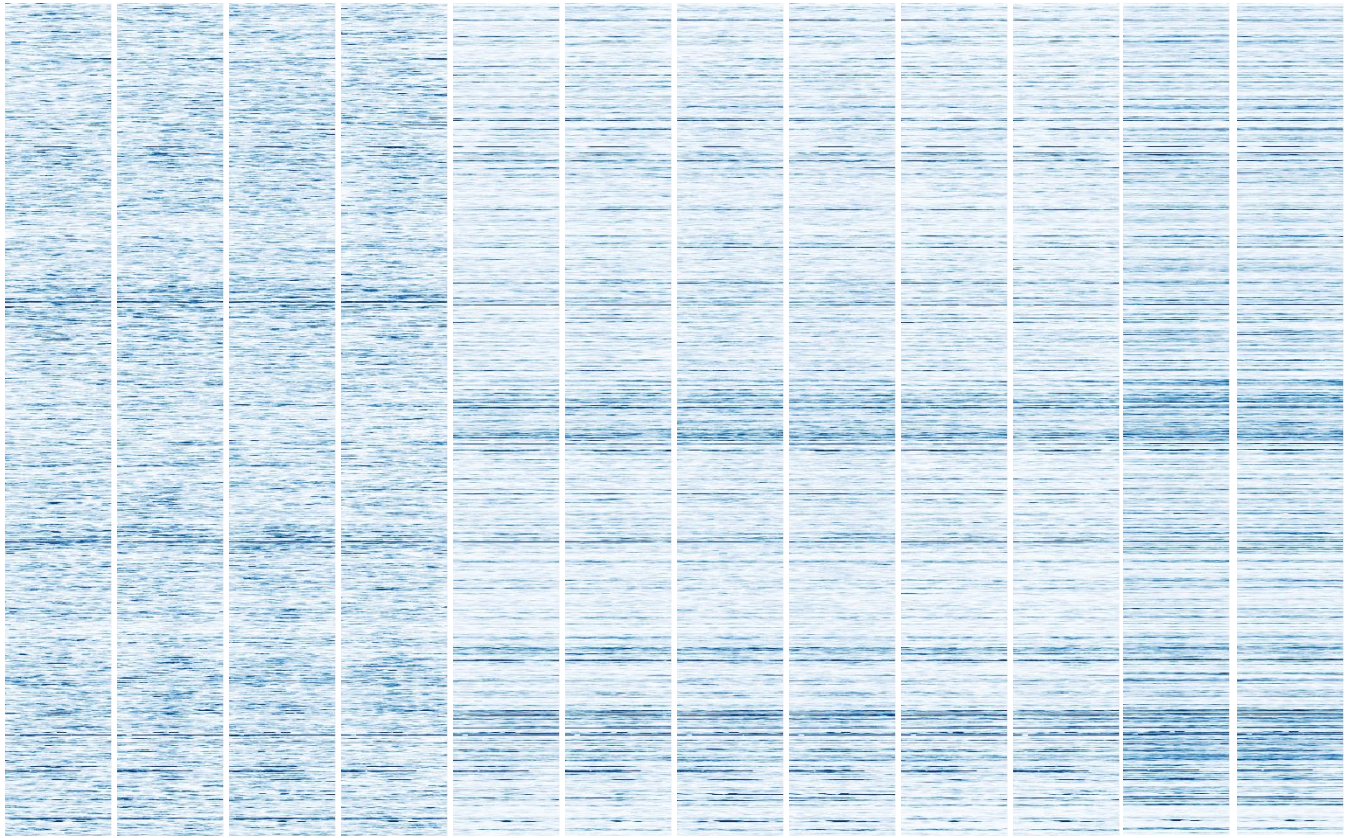
#	H3K9me2_MPP8-KO	H3K9me2_WT	H3K9me3_MORC2-KO	H3K9me3_MPP8-KO	H3K9me3_TASOR-KO	H3K9me3_WT	MORC2_MORC2-KO	MORC2_MPP8-KO	MORC2_TASOR-KO	MORC2_WT	MORC2_hESC_WT	MPP8_MORC2-KO	MPP8_MPP8-KO	MPP8_TASOR-KO	MPP8_WT	MPP8_hESC_WT	PolII_K562_MORC2-KO	PolII_K562_MPP8-KO	PolII_K562_TASOR-KO	PolII_K562_WT	TASOR_MORC2-KO	TASOR_MPP8-KO	TASOR_TASOR-KO	TASOR_WT
EnhA1	0.04	0.05	0.01	0.02	0.01	0.02	0.00	0.05	0.04	0.02	0.02	0.02	0.05	0.03	0.00	0.01	0.04	0.05	0.05	0.05	0.01	0.02	0.05	0.00
EnhA2	0.00	0.01	0.01	0.02	0.01	0.02	0.00	0.02	0.02	0.02	0.01	0.03	0.07	0.05	0.01	0.01	0.03	0.03	0.03	0.03	0.01	0.01	0.02	0.01
EnhBiv	0.04	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00
EnhG1	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.02	0.04	0.04	0.05	0.05	0.00	0.00	0.00	0.00
EnhG2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.00
EnhWk	0.08	0.14	0.04	0.07	0.04	0.06	0.00	0.08	0.10	0.06	0.10	0.04	0.06	0.09	0.02	0.06	0.10	0.10	0.12	0.15	0.03	0.04	0.05	0.02
Het	0.21	0.11	0.15	0.13	0.16	0.12	0.00	0.10	0.03	0.08	0.03	0.25	0.09	0.06	0.17	0.10	0.00	0.00	0.00	0.00	0.14	0.03	0.00	0.10
Quies	0.29	0.16	0.31	0.22	0.30	0.27	0.00	0.06	0.03	0.17	0.12	0.24	0.11	0.18	0.23	0.23	0.04	0.04	0.04	0.04	0.20	0.12	0.05	0.13
ReprPC	0.08	0.08	0.02	0.03	0.02	0.03	0.00	0.01	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
ReprPCWl	0.08	0.20	0.13	0.11	0.11	0.12	0.00	0.02	0.02	0.02	0.07	0.02	0.01	0.06	0.02	0.07	0.01	0.01	0.01	0.02	0.05	0.03	0.02	0.01
TssA	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.07	0.19	0.14	0.15	0.02	0.18	0.12	0.05	0.04	0.17	0.17	0.15	0.10	0.23	0.37	0.37	0.29
TssBiv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TssFlnk	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.05	0.08	0.08	0.08	0.02	0.08	0.09	0.03	0.03	0.10	0.10	0.10	0.08	0.08	0.15	0.14	0.10
TssFlnkD	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.06	0.12	0.05	0.08	0.00	0.03	0.06	0.02	0.02	0.08	0.08	0.08	0.07	0.02	0.03	0.06	0.03
TssFlnkU	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.10	0.22	0.10	0.12	0.01	0.08	0.09	0.03	0.02	0.15	0.15	0.13	0.10	0.09	0.15	0.18	0.13
Tx	0.00	0.02	0.05	0.05	0.04	0.05	0.00	0.05	0.01	0.05	0.02	0.04	0.01	0.01	0.06	0.07	0.07	0.06	0.06	0.08	0.02	0.01	0.00	0.02
TxWk	0.13	0.08	0.18	0.20	0.17	0.19	0.00	0.09	0.03	0.13	0.08	0.18	0.10	0.09	0.19	0.22	0.14	0.13	0.14	0.19	0.09	0.04	0.04	0.08
ZNF/Rpts	0.04	0.02	0.09	0.10	0.11	0.08	0.00	0.24	0.06	0.07	0.02	0.12	0.11	0.04	0.15	0.07	0.01	0.00	0.00	0.01	0.03	0.01	0.00	0.07

ChromHMM state overlap enrichment

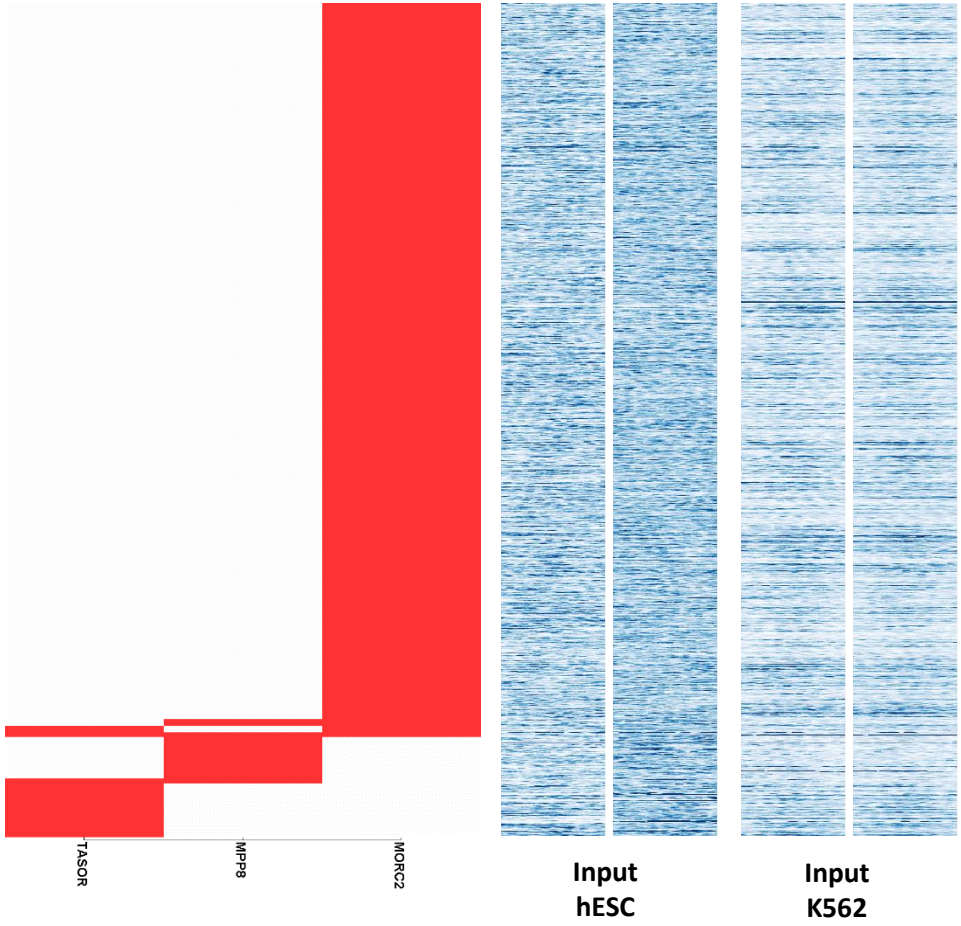
Total:		H3K9me2_MPP8-KO	H3K9me2_WT	H3K9me3_MORC2-KO	H3K9me3_MPP8-KO	H3K9me3_TASOR-KO	H3K9me3_WT	MORC2_MORC2-KO	MORC2_MPP8-KO	MORC2_TASOR-KO	MORC2_WT	MORC2_hESC_WT	MPP8_MORC2-KO	MPP8_MPP8-KO	MPP8_TASOR-KO	MPP8_WT	MPP8_hESC_WT	PolII_K562_MORC2-KO	PolII_K562_MPP8-KO	PolII_K562_TASOR-KO	PolII_K562_WT	TASOR_MORC2-KO	TASOR_MPP8-KO	TASOR_TASOR-KO	TASOR_WT
EnhA1	0.004	3.28	3.57	1.75	2.36	1.53	2.12	#####	3.49	3.34	2.03	2.35	1.97	3.64	2.88	-0.58	1.60	3.36	3.62	3.52	3.54	0.73	2.41	3.39	0.19
EnhA2	0.002	#####	1.57	2.76	3.25	2.77	3.17	#####	3.51	3.32	3.08	2.87	3.82	5.09	4.67	2.91	2.62	3.87	4.01	3.86	3.82	2.31	2.57	3.64	1.94
EnhBiv	0.003	3.84	3.29	-1.35	1.73	0.51	0.94	#####	-0.27	1.82	-0.43	3.43	#####	#####	-0.26	#####	0.68	0.71	0.83	1.11	1.50	#####	-0.03	0.45	#####
EnhG1	0.004	#####	0.60	0.15	1.45	0.46	1.08	#####	0.37	-0.35	1.23	1.32	0.85	1.67	0.38	-0.38	2.46	3.45	3.34	3.61	3.79	#####	#####	-1.50	-0.61
EnhG2	0.001	#####	4.45	1.63	2.12	1.71	1.63	#####	2.22	3.31	2.80	3.17	3.70	3.52	#####	2.47	3.67	4.61	4.63	4.66	4.54	#####	2.46	3.68	2.24
EnhWk	0.023	1.87	2.64	0.69	1.59	0.69	1.38	#####	1.72	2.19	1.33	2.11	0.70	1.38	2.02	-0.18	1.42	2.07	2.16	2.44	2.69	0.32	0.70	0.98	-0.22
Het	0.025	3.06	2.19	2.58	2.40	2.68	2.32	#####	2.03	0.09	1.63	0.06	3.35	1.84	1.29	2.79	2.04	-2.42	-2.46	-2.82	-2.36	2.52	0.33	-2.64	1.94
Quies	0.512	-0.81	-1.69	-0.71	-1.24	-0.75	-0.93	#####	-3.20	-4.19	-1.63	-2.11	-1.10	-2.26	-1.47	-1.13	-1.18	-3.78	-3.75	-3.81	-3.71	-1.39	-2.13	-3.50	-2.01
ReprPC	0.037	1.17	1.10	-0.81	-0.28	-1.09	-0.51	#####	-1.94	-2.07	-3.20	0.38	#####	#####	-3.93	#####	-0.99	-3.06	-3.00	-2.56	-1.82	-3.96	#####	-3.22	#####
ReprPCWk	0.154	-0.89	0.37	-0.30	-0.52	-0.48	-0.38	#####	-3.18	-3.18	-2.83	-1.08	-2.93	-3.69	-1.34	-2.74	-1.24	-3.80	-3.69	-3.45	-2.91	-1.56	-2.59	-2.95	-3.39
TssA	0.004	#####	2.06	-1.18	0.87	-0.11	1.09	#####	4.15	5.57	5.11	5.17	2.31	5.49	4.89	3.49	3.23	5.40	5.38	5.16	4.65	5.80	6.50	6.49	6.14
TssBiv	0.000	#####	#####	#####	0.90	-1.50	-0.05	#####	3.44	5.31	3.37	5.13	3.92	#####	5.03	#####	2.17	4.00	3.96	3.99	3.81	#####	#####	4.16	3.46
TssFlnk	0.002	#####	1.58	0.25	2.08	1.52	2.38	#####	4.67	5.42	5.45	5.36	3.64	5.46	5.53	4.06	3.93	5.74	5.73	5.70	5.33	5.46	6.29	6.20	5.76
TssFlnkD	0.002	#####	2.54	-1.25	1.50	0.39	1.35	#####	4.96	5.96	4.66	5.33	0.79	3.93	4.84	3.37	2.98	5.31	5.31	5.41	5.10	3.10	4.01	4.94	3.79
TssFlnkU	0.002	#####	4.57	-0.79	1.48	0.19	1.34	#####	5.50	6.68	5.52	5.85	1.65	5.17	5.39	3.60	3.43	6.11	6.11	5.96	5.50	5.40	6.11	6.40	5.89
Tx	0.024	#####	-0.10	0.93	1.15	0.87	1.06	#####	0.99	-0.88	1.04	-0.64	0.61	-2.04	-0.74	1.38	1.58	1.47	1.34	1.36	1.75	-0.19	-2.10	-2.61	0.01
TxWk	0.106	0.24	-0.42	0.73	0.92	0.68	0.82	#####	-0.17	-1.62	0.31	-0.37	0.73	-0.07	-0.20	0.86	1.03	0.40	0.30	0.42	0.87	-0.27	-1.41	-1.32	-0.35
ZNF,Rpts	0.001	4.91	3.62	6.07	6.17	6.25	5.93	#####	7.42	5.46	5.66	3.85	6.45	6.35	4.90	6.73	5.71	1.91	1.84	1.60	2.09	4.59	2.04	-0.06	5.63

Peak clustering (MORC2, MPP8, TASOR WT only)

Peak clustering (MORC2, MPP8, TASOR WT only)



H3K9me2 MPP8-KO | H3K9me2 WT | H3K9me3 MORC2 KO | H3K9me3 MPP8 KO | H3K9me3 TASOR KO | H3K9me3 WT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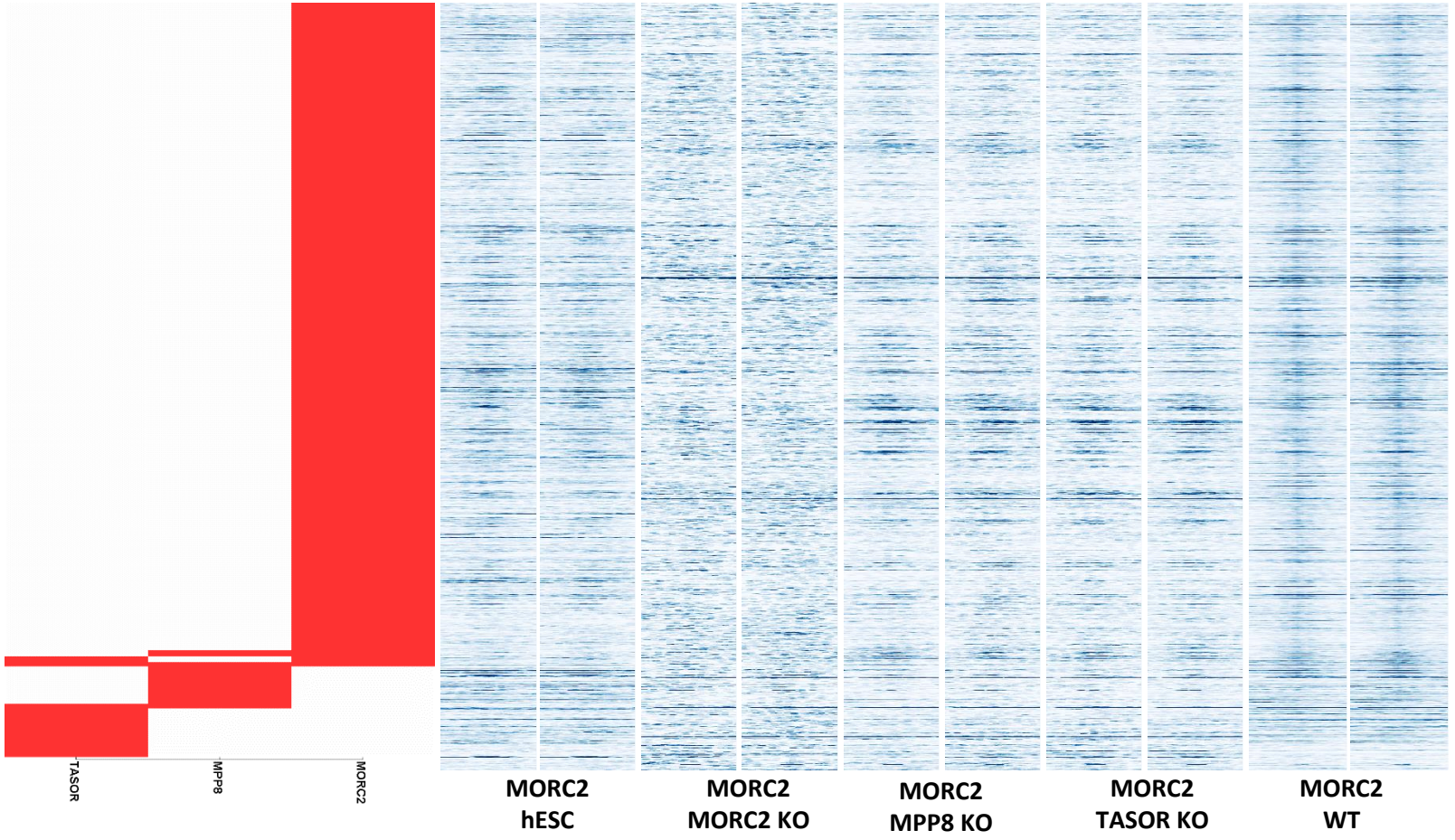
MPP8
MORC2
Input
hESC
Input
K562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MPP8
MORC2
MORC2
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MORC2
MORC2 KO
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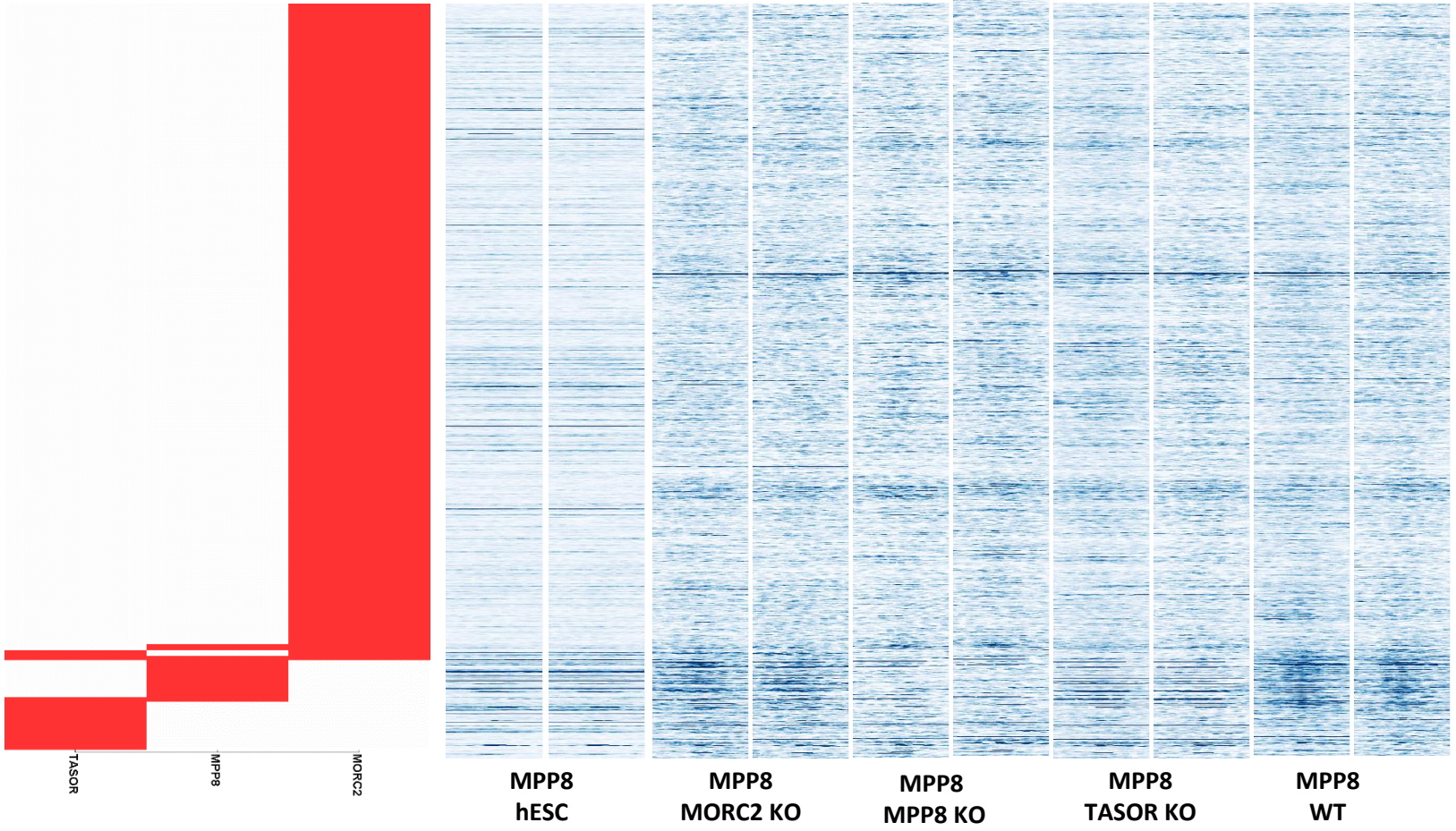
MORC2
TASOR KO
MORC2
WT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MPP8
MORC2
MPP8
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MPP8
MORC2 KO
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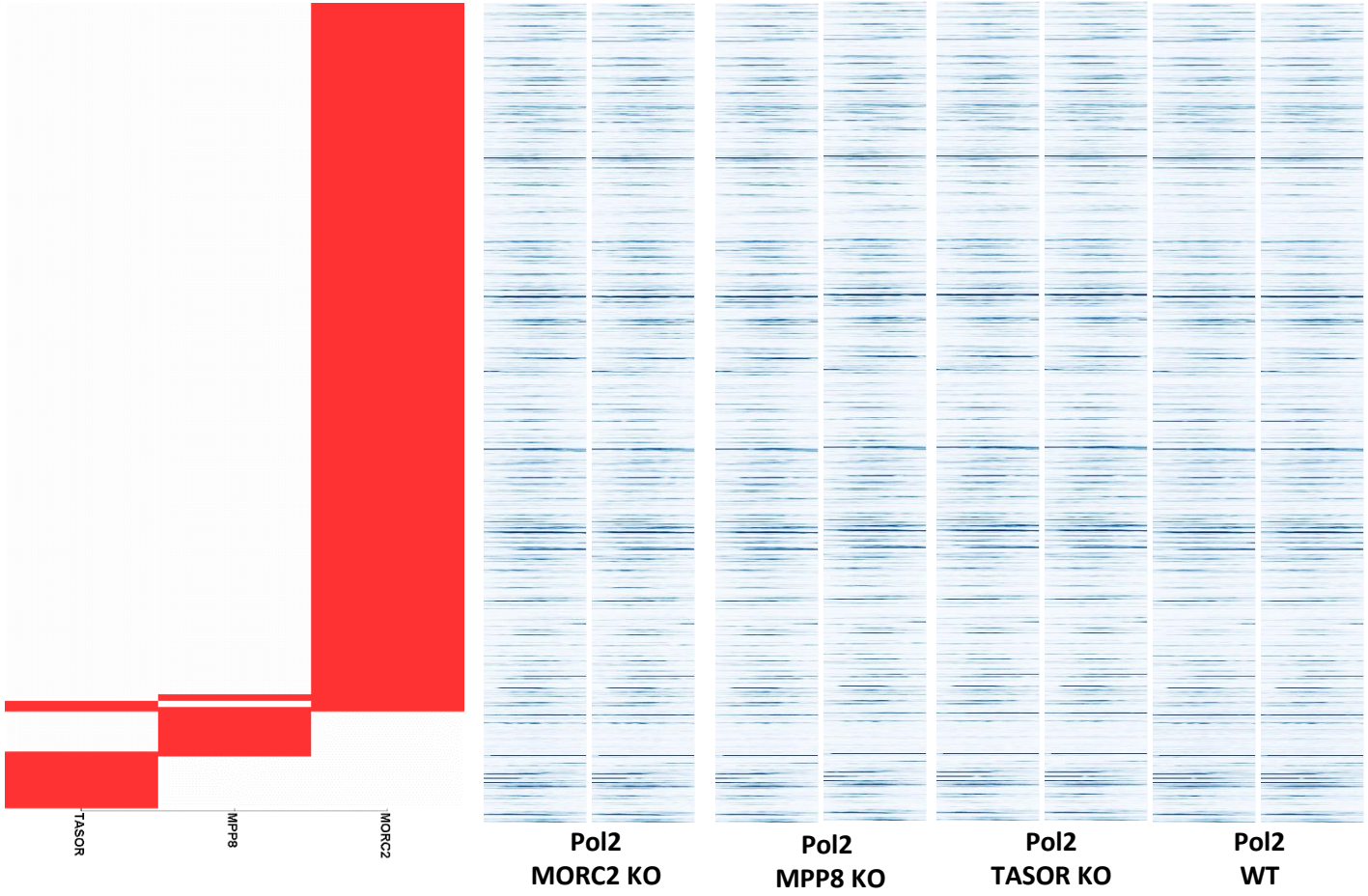
MPP8 KO
MPP8
TASOR KO
MPP8
WT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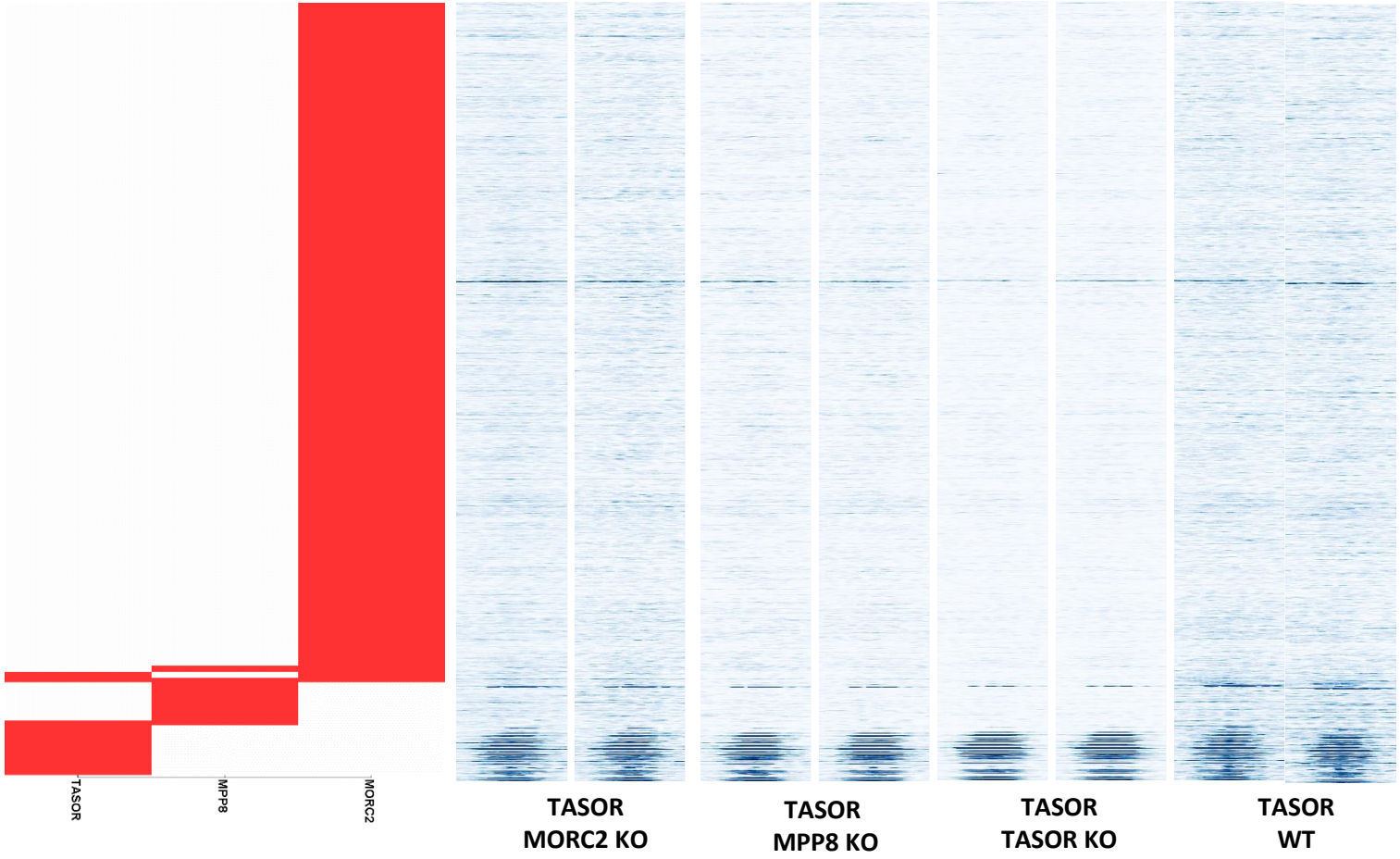
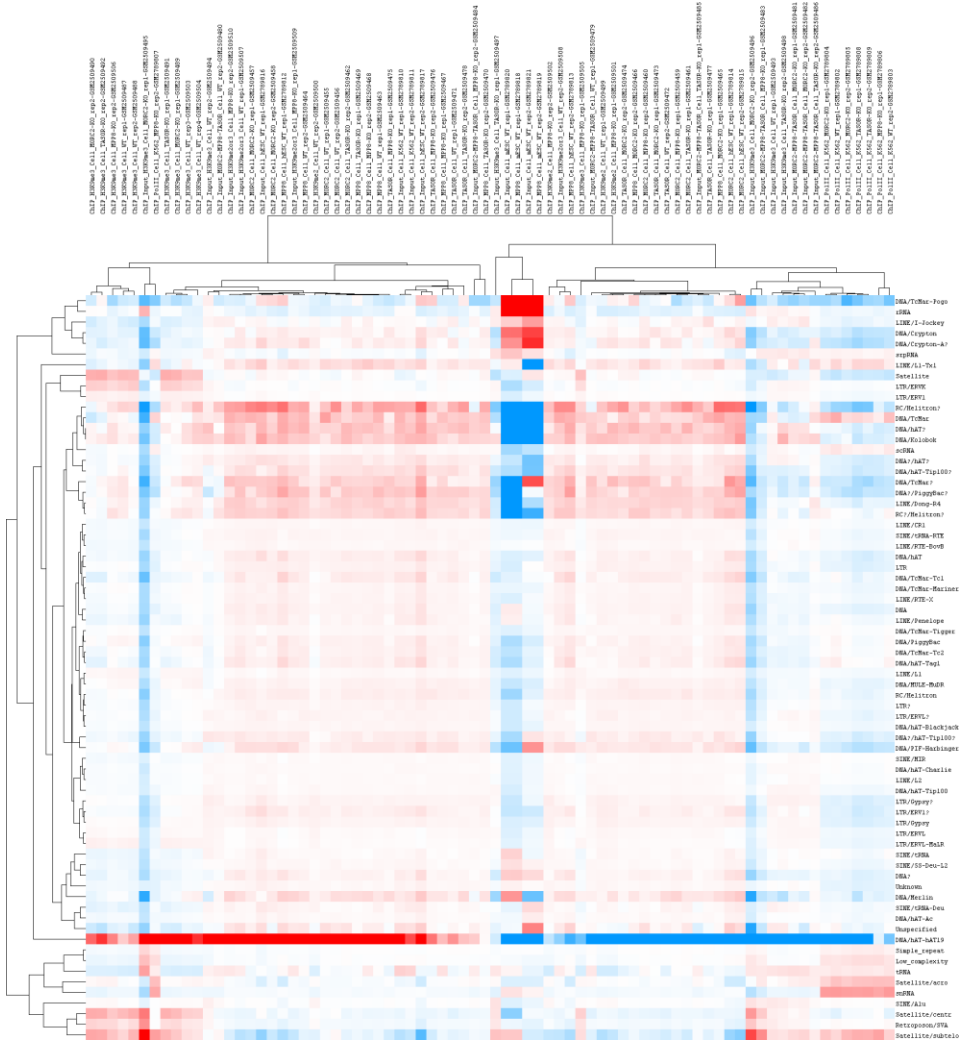
MORC2
Pol2
MORC2 KO
Pol2
MPP8 KO
Pol2
TASOR KO
Pol2
WT


TASOR
MPP8
MORC2
TASOR
MORC2 KO
TASOR
MPP8 KO
TASOR
TASOR KO
TASOR
WT

Repeat classes



Repeat families