

Table S1. Regions of mouse genome (flagged region) that are enriched in input, affinity control and experimental ChIP.

Chromosome	Peak start	Peak end	Peak width (bp)	In input
chr1	197067705	197068115	411	TRUE
chr10	21862065	21862874	810	TRUE
chr10	95540115	95540577	463	TRUE
chr10	95540115	95540577	463	TRUE
chr11	53953491	53954238	748	TRUE
chr11	53953491	53954238	748	TRUE
chr11	53953491	53954238	748	TRUE
chr11	53953491	53954238	748	TRUE
chr11	108872898	108873446	549	TRUE
chr12	3109866	3110177	312	TRUE
chr12	56701255	56701450	196	FALSE
chr12	68160101	68160929	829	TRUE
chr12	75904825	75905560	736	TRUE
chr12	98299607	98300069	463	TRUE
chr12	98299607	98300069	463	TRUE
chr13	3372078	3372970	893	TRUE
chr13	3372078	3372970	893	TRUE
chr13	3372078	3372970	893	TRUE
chr13	77578107	77578378	272	TRUE
chr13	77578107	77578378	272	TRUE
chr13	85266203	85267181	979	TRUE
chr13	97960438	97960646	209	TRUE
chr13	100560813	100561130	318	TRUE
chr13	100560813	100561130	318	TRUE
chr13	100560813	100561130	318	TRUE
chr15	72399062	72399239	178	FALSE
chr15	74916570	74917534	965	TRUE
chr15	74916570	74917534	965	TRUE
chr15	74916570	74917534	965	TRUE
chr15	74916570	74917534	965	TRUE
chr15	74916570	74917534	965	TRUE
chr15	74916570	74917534	965	TRUE
chr15	74916570	74917534	965	TRUE
chr15	74916570	74917534	965	TRUE
chr15	77950232	77950459	228	FALSE
chr16	10975106	10975426	321	TRUE
chr16	35981645	35981897	253	TRUE
chr16	35981645	35981897	253	TRUE
chr16	57391552	57391833	282	TRUE
chr16	57391552	57391833	282	TRUE

Chromosome	Peak start	Peak end	Peak width (bp)	In input
chr16	98244219	98244413	195	TRUE
chr16	98244219	98244413	195	TRUE
chr16	98244219	98244413	195	TRUE
chr17	36368168	36368596	429	TRUE
chr17	36368168	36368596	429	TRUE
chr17	39979904	39985817	5914	TRUE
chr17	39979904	39985817	5914	TRUE
chr17	39979904	39985817	5914	TRUE
chr17	39979904	39985817	5914	TRUE
chr18	3005011	3006236	1226	TRUE
chr18	3005011	3006236	1226	TRUE
chr18	3005011	3006236	1226	TRUE
chr18	3005011	3006236	1226	TRUE
chr18	3005011	3006236	1226	TRUE
chr18	3005011	3006236	1226	TRUE
chr18	3005011	3006236	1226	TRUE
chr18	3005011	3006236	1226	TRUE
chr18	3638812	3639187	376	TRUE
chr18	40467658	40468068	411	TRUE
chr18	56099081	56099335	255	TRUE
chr18	82390528	82390698	171	TRUE
chr19	4989120	4989292	173	FALSE
chr19	42330454	42330685	232	FALSE
chr19	45724406	45724768	363	TRUE
chr19	45724406	45724768	363	TRUE
chr19	61275555	61275792	238	TRUE
chr2	22444012	22446095	2084	TRUE
chr2	22600333	22600516	184	TRUE
chr2	69193555	69193763	209	TRUE
chr2	79294386	79294591	206	FALSE
chr2	98502333	98503197	865	TRUE
chr2	98502333	98503197	865	TRUE
chr2	98502333	98503197	865	TRUE
chr2	98502333	98503197	865	TRUE
chr2	98503753	98504307	555	TRUE
chr2	98506340	98507525	1186	TRUE
chr2	98506340	98507525	1186	TRUE
chr2	152858042	152858252	211	FALSE
chr2	164794060	164794160	101	FALSE
chr2	181652014	181652818	805	TRUE
chr2	181652014	181652818	805	TRUE
chr2	181652014	181652818	805	TRUE
chr2	181665130	181665729	600	TRUE

Chromosome	Peak start	Peak end	Peak width (bp)	In input
chr2	181665130	181665729	600	TRUE
chr3	5860569	5860868	300	TRUE
chr3	5860569	5860868	300	TRUE
chr3	8245754	8246603	850	TRUE
chr3	8245754	8246603	850	TRUE
chr3	8245754	8246603	850	TRUE
chr3	56379314	56379744	431	TRUE
chr3	56379314	56379744	431	TRUE
chr3	56379314	56379744	431	TRUE
chr3	56379314	56379744	431	TRUE
chr3	99785033	99785316	284	TRUE
chr4	3016622	3018387	1766	TRUE
chr4	3016622	3018387	1766	TRUE
chr4	3016622	3018387	1766	TRUE
chr4	21639564	21639635	72	FALSE
chr4	28104023	28104197	175	TRUE
chr4	64158840	64159150	311	TRUE
chr4	64158840	64159150	311	TRUE
chr4	70039090	70039358	269	TRUE
chr4	79648396	79651153	2758	TRUE
chr5	7276770	7277009	240	TRUE
chr5	115372382	115372654	273	TRUE
chr5	115372382	115372654	273	TRUE
chr5	115372382	115372654	273	TRUE
chr5	147072509	147072968	460	TRUE
chr5	147072509	147072968	460	TRUE
chr6	3151399	3151612	214	TRUE
chr6	9840054	9840216	163	TRUE
chr6	48071227	48071390	164	TRUE
chr6	79768041	79768360	320	TRUE
chr6	79768041	79768360	320	TRUE
chr6	103598999	103599287	289	TRUE
chr6	121423177	121423379	203	FALSE
chr6	136752829	136753076	248	TRUE
chr7	7230792	7230996	205	TRUE
chr7	88638379	88638443	65	FALSE
chr7	89920145	89920590	446	TRUE
chr7	118940974	118941162	189	TRUE
chr8	14072623	14072825	203	FALSE
chr8	19784504	19784991	488	TRUE
chr8	20020262	20020528	267	TRUE
chr8	24205893	24206328	436	TRUE

Chromosome	Peak start	Peak end	Peak width (bp)	In input
chr8	24205893	24206328	436	TRUE
chr8	127317183	127317380	198	FALSE
chr9	2999946	3001152	1207	TRUE
chr9	3002908	3003075	168	TRUE
chr9	3005825	3006009	185	TRUE
chr9	3015212	3015406	195	TRUE
chr9	3015644	3015808	165	TRUE
chr9	3016025	3016407	383	TRUE
chr9	3018714	3019517	804	TRUE
chr9	3025313	3026171	859	FALSE
chr9	3026262	3027857	1596	TRUE
chr9	3030097	3030318	222	TRUE
chr9	3031825	3032769	945	TRUE
chr9	3035658	3036643	986	TRUE
chr9	15123942	15124316	375	TRUE
chr9	24346388	24346665	278	TRUE
chr9	24346388	24346665	278	TRUE
chr9	24346388	24346665	278	TRUE
chr9	24549507	24549705	199	TRUE
chr9	35112718	35113179	462	TRUE
chr9	86916747	86916747	1	FALSE
chr9	108729231	108729531	301	FALSE
chr9	123371015	123371328	314	TRUE
chr9	123782164	123782369	206	TRUE
chrX	73843981	73844520	540	TRUE
chrX	73843981	73844520	540	TRUE
chrX	109484283	109484882	600	TRUE
chrX	109484283	109484882	600	TRUE
chrX	139917495	139917705	211	TRUE
chrX	139917495	139917705	211	TRUE
chrY	2765733	2765870	138	FALSE

Most of these genomic sites hereafter designated as flagged regions are also enriched in other publically available control and experimental ChIP datasets. True indicates whether the given genomic locus is equally enriched in input sample. False indicates that the region is enriched in affinity based control and experimental ChIP but not in the input genomic DNA.