

Table S1. Zbed6 binding sites in mouse C2C12 cells identified using ChIP-sequencing. All peaks with at least 15 overlapping reads are listed and sorted according to the number of reads. Overlaps=Number of overlapping extended reads. Dist_CpG=Distance to closest CpG island in base pair. Dist_TSS=Distance to transcription start site in base pair. GeneID= Gene name.

Peak region (+/- 250 BP)	Overlaps	Dist_CpG	Dist_TSS	GeneID
chr17:39982690-39983190	190	0	500000	
chr6:143115180-143115680	166	0	-319	AK164928
chr10:77084530-77085030	151	44	-285	Ube2g2
chr11:102978410-102978910	150	0	1022	Hexim1
chr6:124946270-124946770	140	309	-217	C530028O21Rik
chr11:114944830-114945330	140	7684	-7664	Rab37
chr7:107177800-107178300	138	12637	23102	Chrdl2
chr5:31190040-31190540	137	0	-934	Agbl5
chr2:130123880-130124380	134	2167	2456	Ebf4
chr12:36883680-36884180	134	430	154	Ankmy2
chr7:142927910-142928410	134	19762	-20119	Ki-67
chr17:5621830-5622330	129	500000	500000	
chr18:40467630-40468130	123	500000	49840	Kctd16
chr15:79927990-79928490	123	5927	6477	Syngn1
chrX:96132560-96133060	120	483	-309	Yipf6
chr4:155609440-155609940	120	591	-746	Klhl17
chr15:79301360-79301860	120	14144	-29174	Csnk1e
chr12:88112740-88113240	117	45482	-45590	Angel1
chr18:25213460-25213960	115	500000	-11007	Fhod3
chr15:74917030-74917530	111	500000	25098	Ly6c2
chr5:36009910-36010410	110	11461	12270	Htra3
chr8:112222205-112222705	107	4816	-5292	2400003C14Rik
chr3:89156995-89157495	106	2836	-3314	Adam15
chr12:112667580-112668080	105	0	12175	1200009I06Rik
chr11:3059580-3060080	105	33170	-1892	Sfi1
chr11:3095860-3096360	105	2408	-2645	Sfi1
chr17:26250500-26251000	103	0	489	Tmem8
chr10:59413870-59414370	103	0	397	Ddit4
chr4:41587050-41587550	102	28	34	2310040A07Rik
chr5:31481740-31482240	101	0	526	Gtf3c2
chr9:122930070-122930570	99	0	-123	Tmem42
chr10:61948720-61949220	98	66	375	Vps26a
chr11:3079380-3079880	96	13370	13835	Sfi1
chr14:76186230-76186730	96	0	363	Slc25a30
chr6:147212725-147213225	96	148	-568	Pthlh
chr12:75008170-75008670	95	42	-596	Hif1a
chr5:77787610-77788110	94	47980	48335	Polr2b
chr7:120350400-120350900	94	0	-328	Arntl
chr2:112665580-112666080	92	500000	500000	
chr11:3087170-3087670	91	5580	6045	Sfi1

chr8:13104630-13105130	91	0	462	Pcid2
chr17:36974240-36974740	91	99	405	Trim26
chr7:144506355-144506855	89	0	-478	Ebf3
chr17:8845660-8846160	88	500000	500000	
chr11:3051150-3051650	88	27630	-860	BC025885
chr9:103014360-103014860	87	0	207	Rab6b
chr4:109339520-109340020	87	0	-509	Cdkn2c
chr11:3074245-3074745	87	18505	-16557	Sfi1
chr11:3082350-3082850	86	10400	10865	Sfi1
chr2:181652090-181652590	85	500000	500000	
chr11:102179530-102180030	85	0	629	Ubtf
chr11:18920240-18920740	85	5	-1808	Meis1
chr3:83567820-83568320	85	45	-2172	Sfrp2
chr18:3005580-3006080	83	500000	500000	
chr11:60202360-60202860	81	27632	27896	Atpaf2
chr17:48233980-48234480	81	150	-6903	AK043085
chr8:113782490-113782990	79	0	361	Glg1
chr15:58720040-58720540	79	0	-562	Rnf139
chr11:3098800-3099300	79	3235	-3344	Eif4enif1
chr1:197067670-197068170	77	0	500000	
chr3:69120720-69121220	77	0	131	Ppm1l
chr2:31526060-31526560	75	0	54	Exosc2
chr3:55465600-55466100	74	500000	500000	
chr19:10599770-10600270	74	0	265	5730453116Rik
chr17:80689350-80689850	74	0	49	Mopt
chr16:62786320-62786820	74	0	-29	Nsun3
chr3:95118830-95119330	74	0	-42	AK144859
chrX:166427080-166427580	74	100	-2460	AK019053
chr9:24955630-24956130	73	0	194	Herpud2
chr13:96145042-96145542	73	0	-2	Aggf1
chr10:127895650-127896150	73	0	-449	Smarcc2
chrX:166432690-166433190	73	773	-8070	AK019053
chr3:8246160-8246660	72	500000	500000	
chr4:102621540-102622040	72	500000	-15329	SGIP1alpha
chr11:18968340-18968840	72	40976	-49908	Meis1
chr2:32612950-32613450	71	175	410	Tor2a
chr9:21961440-21961940	71	10	401	Pigyl
chr5:108797030-108797530	71	315	26	AK165889
chr7:106529730-106530230	71	0	-78	Gdpd5
chr7:149135220-149135720	71	0	-185	Brsk2
chr11:60512865-60513365	71	81	-226	Llg1
chr14:21894820-21895320	71	0	-303	Adk
chr16:32430450-32430950	71	3	-381	Pcyt1a
chr8:73027440-73027940	70	336	487	CRLM3
chr9:94437810-94438310	70	0	439	1190002N15Rik
chr11:53953810-53954310	69	39187	12866	P4ha2

chr11:74185050-74185550	69	500000	7128	Olfr412
chr10:67739140-67739640	69	357	2083	Arid5b
chr5:149982710-149983210	68	12729	12678	AK082086
chr9:64989480-64989980	68	0	735	Punc
chr19:12576080-12576580	68	41	304	Dtx4
chr8:85689245-85689745	68	0	245	Tbc1d9
chr9:106105340-106105840	68	0	152	Twf2
chr1:183672710-183673210	66	500000	1794	A230079K17Rik
chr6:38586130-38586630	66	0	858	Klrg2
chr17:47896630-47897130	66	21380	588	AK195221
chr13:63674970-63675470	66	180	-8393	Ptch1
chr15:36645520-36646020	65	500000	500000	
chr4:151726315-151726815	65	10774	13806	Chd5
chr15:97826530-97827030	65	5541	8295	Col2a1
chr6:95068205-95068705	65	0	556	Kbtbd8
chr15:85219610-85220110	64	500000	500000	
chr19:45724400-45724900	64	9512	10032	Fbxw4
chr5:67009625-67010125	64	0	34	Apbb2
chr15:88693685-88694185	63	0	1312	Pim3
chr6:39369310-39369810	63	18	214	Mkrn1
chr11:20531880-20532380	62	0	151	Sertad2
chr6:124813950-124814450	62	223	-266	Gpr162
chr7:120513260-120513760	62	10	-658	Btbd10
chr7:140315855-140316355	62	0	-940	Ctbp2
chr14:55615015-55615515	62	18394	-1880	Myh7
chr4:132567525-132568025	61	0	355	Ahdc1
chr17:27194460-27194960	61	185	230	Itpr3
chr11:87172040-87172540	61	0	205	Ppm1e
chr5:119010580-119011080	61	0	103	Med13l
chr16:4419265-4419765	61	121	72	Adcy9
chr16:26105890-26106390	61	126	-271	Leprel1
chr11:49699940-49700440	61	14894	-15146	Rasgef1c
chr9:122565150-122565650	60	500000	500000	
chr11:19958860-19959360	60	37846	500000	
chr17:29237545-29238045	60	2188	2644	Cdkn1a
chr12:76835790-76836290	60	188	606	Sgpp1
chr10:86193560-86194060	59	25100	18301	BC030307
chr11:5873910-5874410	59	1753	4354	Camk2b
chr1:24620400-24620900	59	26634	1000	Atpase6
chr10:11063260-11063760	59	0	268	Epm2a
chr9:66793795-66794295	59	0	121	Rps27l
chr3:55464700-55465200	58	500000	500000	
chr18:3008505-3009005	58	500000	500000	
chr11:114530070-114530570	58	0	464	Rpl38
chr11:105946210-105946710	58	0	245	Map3k3
chr5:45841105-45841605	58	0	40	Qdpr

chr12:85516570-85517070	57	16798	18159	C130039O16Rik
chr18:16966380-16966880	57	0	1124	Cdh2
chr6:86347190-86347690	57	215	-327	Pcyox1
chr13:3372110-3372610	56	11772	500000	
chr9:62566130-62566630	56	40634	40713	Itga11
chr19:61275435-61275935	56	25311	28576	Csf2ra
chr12:85533410-85533910	55	0	1319	C130039O16Rik
chr8:113823480-113823980	55	0	391	Rfwd3
chr9:56775895-56776395	55	0	32	Sh3px3
chr2:29107530-29108030	55	0	-221	mKIAA1857
chr1:69903600-69904100	54	30075	30289	Spag16
chr1:57030355-57030855	54	260	1430	AK046737
chr15:97833620-97834120	54	1155	1205	Col2a1
chr7:29162920-29163420	54	220	1076	Zfp36
chr15:96118050-96118550	54	0	348	1700124K17Rik
chr4:148511115-148511615	54	27	293	Apitd1
chr2:122124615-122125115	54	21	230	Duoxa2
chr17:57129115-57129615	54	141	-366	Clpp
chr7:37474380-37474880	54	5701	-8506	Tshz3
chr5:149983900-149984400	53	11539	11488	AK082086
chr17:46159500-46160000	53	7584	5597	Vegfa
chr4:151552740-151553240	53	71	748	Acot7
chr3:87774980-87775480	53	0	216	Nes
chr15:99055325-99055825	53	281	169	Kcnh3
chr15:99860540-99861040	53	8178	-8372	AI317237
chr19:4333930-4334430	53	28128	-28226	Adrbk1
chr1:183674040-183674540	52	500000	3124	A230079K17Rik
chr15:102752550-102753050	52	178	1239	Hoxc13
chr18:62071165-62071665	52	0	36	Ablim3
chr19:47089975-47090475	52	0	-583	Nt5c2
chr8:87306530-87307030	52	1340	-8513	Nfix
chr2:22444250-22444750	52	33197	-33346	Gad2
chr18:82390320-82390820	51	500000	500000	
chr10:90319330-90319830	51	26934	26993	Anks1b
chr15:85496660-85497160	51	3852	20398	AK041762
chr11:104411150-104411650	51	0	533	Cdc27
chr8:79423955-79424455	51	0	314	AK162930
chr11:78074600-78075100	51	69	-407	2610507B11Rik
chr18:13132070-13132570	50	16	1560	Impact
chrX:154035210-154035710	50	630	1186	Mbtps2
chr2:125331340-125331840	50	0	583	Fbn1
chr3:120965940-120966440	50	33	43	Tmem56
chr3:8245020-8245520	49	500000	500000	
chr3:12640260-12640760	49	500000	500000	
chr1:167166605-167167105	49	0	218	Tipr1
chr1:180459110-180459610	49	0	105	D230039L06Rik

chr16:70314090-70314590	49	0	9	Gbe1
chr5:120120150-120120650	49	0	-277	Tbx3
chr2:113791960-113792460	49	46889	-47092	AK045885
chr2:19192000-19192500	48	500000	500000	
chr2:122507430-122507930	48	20259	20718	Slc30a4
chr12:81360265-81360765	48	0	787	Actn1
chr16:38902520-38903020	48	0	313	Igsf11
chr16:32247180-32247680	48	40	59	Wdr53
chr1:193933140-193933640	48	16758	-16946	Traf5
chr4:130299890-130300390	48	48126	-48311	Sdc3
chr9:60037290-60037790	48	500000	-48599	Thsd4
chr5:148176005-148176505	47	35227	35809	Flt3
chr2:166731930-166732430	47	51	585	Cse1l
chr15:102162405-102162905	47	197	487	Myg1
chr15:79376440-79376940	47	0	480	Ddx17
chr9:71618710-71619210	47	80	448	Cgn1
chr6:114232760-114233260	47	0	243	Slc6a1
chr2:44965390-44965890	47	0	123	Zeb2
chr11:9018315-9018815	47	31838	-64	Upp1
chr10:67000270-67000770	47	33	-96	Egr2
chr4:154623650-154624150	47	2	-188	2610002J02Rik
chr10:98569305-98569805	47	0	-249	Wdr51b
chr3:87805890-87806390	47	1749	-1989	Bcan
chr17:36368000-36368500	47	0	-17515	AK138323
chr17:5618800-5619300	46	500000	500000	
chr1:188529220-188529720	46	0	397	Tgfb2
chr8:58773340-58773840	46	0	242	Hpgd
chr17:6106330-6106830	46	0	144	AK163710
chr13:76521950-76522450	46	0	-208	Mctp1
chr1:177422700-177423200	46	103	-430	Rgs7
chr15:99500130-99500630	46	309	-768	Accn2
chr3:102906040-102906540	46	28	-25188	Dennd2c
chr11:5081720-5082220	46	29409	-29746	Emid1
chr4:146893080-146893580	46	500000	-34085	OTTMUSG00000010673
chr9:3258615-3259115	45	500000	43552	DQ722852
chrX:109484270-109484770	45	500000	34910	Sat1l
chr3:60807275-60807775	45	204	809	P2ry1
chr5:9101155-9101655	45	0	669	4930420K17Rik
chr6:113991110-113991610	45	298	659	Atp2b2
chr10:78995770-78996270	45	97	466	Ppap2c
chr8:122386190-122386690	45	52	236	BC025816
chr1:169279945-169280445	45	67	74	Aldh9a1
chr8:118230870-118231370	45	0	-327	Maf
chr13:59833200-59833700	45	37224	-338	4932411G14Rik
chr13:58230570-58231070	45	0	-2072	AK019388
chr7:138683810-138684310	45	1376	-2416	Hmx3

chrX:166430525-166431025	45	1162	-5905	AK019053
chr10:82816490-82816990	45	6013	-6257	D10Wsu102e
chr3:154086640-154087140	44	500000	500000	
chr16:21771050-21771550	44	22889	16568	Ehhadh
chr1:39633090-39633590	44	30	909	Rnf149
chr1:107887610-107888110	44	0	878	Zcchc2
chr15:99803800-99804300	44	0	840	Larp4
chr6:121134170-121134670	44	0	736	Pex26
chr3:104764775-104765275	44	0	-399	Wnt2b
chr7:119822180-119822680	44	0	-676	Tead1
chr10:61592685-61593185	44	2591	-2902	Neurog3
chr15:12496530-12497030	44	500000	-8669	AK195788
chr15:83443750-83444250	44	18303	-18461	Ttll12
chr10:17690690-17691190	44	22854	-23068	Heca
chr1:167667320-167667820	44	26266	-26340	Creg1
chr1:192365770-192366270	43	500000	500000	
chr6:47601070-47601570	43	0	500000	
chr4:145147600-145148100	43	19143	39015	BC086318
chr19:7248100-7248600	43	7630	32423	Otub1
chr10:21862050-21862550	43	6038	6328	AK053193
chr1:26743675-26744175	43	500000	379	4931408C20Rik
chr10:79379800-79380300	43	122	335	Kiss1r
chr5:135027845-135028345	43	0	208	Clip2
chr8:97508360-97508860	43	500000	108	Gpr56
chr4:102791370-102791870	43	182	-374	Mier1
chr15:88953745-88954245	43	345	-479	Tubgcp6
chr15:74393170-74393670	43	917	-582	Bai1
chr19:42459440-42459940	43	46191	-20970	AK077353
chr15:32075560-32076060	43	500000	-31233	Tas2r119
chr4:152327660-152328160	42	500000	500000	
chr14:108530030-108530530	42	500000	500000	
chr6:100513220-100513720	42	0	36077	AK006738
chr17:25385040-25385540	42	7557	7920	Baiap3
chr9:62190510-62191010	42	0	1080	AK028224
chr10:57206140-57206640	42	0	99	Hsf2
chr7:138553970-138554470	42	0	6	Acadsb
chr4:34011340-34011840	42	0	-16	Cnr1
chr9:61220670-61221170	42	0	-421	Tle3
chr8:47380470-47380970	42	469	-696	Helt
chr11:74642910-74643410	42	241	-1267	Mnt
chr15:28111580-28112080	42	500000	-21690	Dnahc5
chr3:151574710-151575210	41	500000	500000	
chr7:89920070-89920570	41	500000	500000	
chr9:21216230-21216730	41	156	134	Qtrt1
chr19:56471340-56471840	41	0	-28	Casp7
chr6:128493215-128493715	41	500000	-52	BC048546

chr9:107134200-107134700	41	0	-211	Dock3
chr19:6427315-6427815	41	262	-239	Nrxn2
chr15:77137360-77137860	41	0	-253	Rbm9
chr6:32538320-32538820	41	348	-379	Ptxna4
chr5:112823170-112823670	41	177	-2188	Asphd2
chr11:55427690-55428190	41	500000	-6649	Gira1
chr15:99861085-99861585	41	7633	-7827	AI317237
chr3:8245605-8246105	40	500000	500000	
chr12:81480960-81481460	40	40143	500000	
chr9:49810550-49811050	40	500000	47818	AK044673
chr12:73475390-73475890	40	33612	34285	Rtn1
chr2:93797435-93797935	40	276	27260	Alkbh3
chr10:126953900-126954400	40	3899	2156	Ndufa4l2
chr5:148536615-148537115	40	0	698	Flt1
chr9:95307050-95307550	40	0	388	Chst2
chr11:75300450-75300950	40	0	379	Prpf8
chr6:52663780-52664280	40	0	289	Tax1bp1
chr3:88306840-88307340	40	0	138	Lmna
chr5:114581360-114581860	40	0	-391	Ung
chr11:76811440-76811940	40	214	-408	Slc6a4
chr14:57504705-57505205	40	0	-534	Zmym2
chr2:48668785-48669285	40	181	-641	Acvr2a
chr15:102528435-102528935	39	5030	23814	Calcoco1
chr4:134506340-134506840	39	19206	19696	Syf2
chr15:98409075-98409575	39	10662	7891	4930415O2ORik
chr7:149850100-149850600	39	58	4753	NR_002855
chr8:124255100-124255600	39	454	888	Jph3
chr11:105927880-105928380	39	404	710	Ccdc44
chr15:75921180-75921680	39	341	625	Nrbp2
chr11:120494180-120494680	39	0	430	Mafg
chr6:115626390-115626890	39	0	12	Raf1
chr2:155299640-155300140	39	40481	-261	Ncoa6
chr11:95685060-95685560	39	1	-503	Phospho1
chr3:88005160-88005660	39	201	-5324	AK141565
chr4:145029650-145030150	39	23544	-24212	NR_002888
chr5:103531760-103532260	39	500000	-44600	Mapk10
chr2:181663680-181664180	38	500000	500000	
chr11:34495155-34495655	38	500000	500000	
chr12:84434535-84435035	38	500000	500000	
chr18:3006085-3006585	38	500000	500000	
chr15:59481350-59481850	38	435	1392	Trib1
chr4:9772060-9772560	38	391	792	Gdf6
chr17:67702905-67703405	38	0	571	Ptprm
chr3:108713850-108714350	38	0	521	Prpf38b
chr12:101203680-101204180	38	0	517	Kcnk13
chr9:119311720-119312220	38	0	352	Acvr2b

chr11:95198400-95198900	38	0	319	5730593F17Rik
chr9:47338470-47338970	38	0	286	Cadm1
chr9:102256690-102257190	38	0	22	Ephb1
chr11:116351990-116352490	38	441	-590	Prpsap1
chr4:118220600-118221100	38	6098	-4518	Tmem125
chr10:127878740-127879240	38	16630	-17359	Smarcc2
chr18:79306080-79306580	38	0	-22653	Setbp1
chr8:126099255-126099755	37	29652	500000	
chr18:105033350-10503850	37	500000	500000	
chr17:88162380-88162880	37	16499	34703	Kcnk12
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