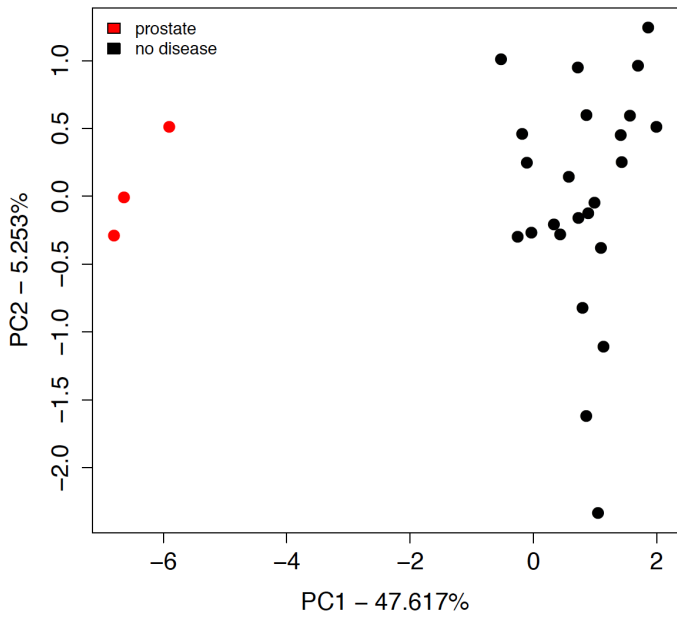
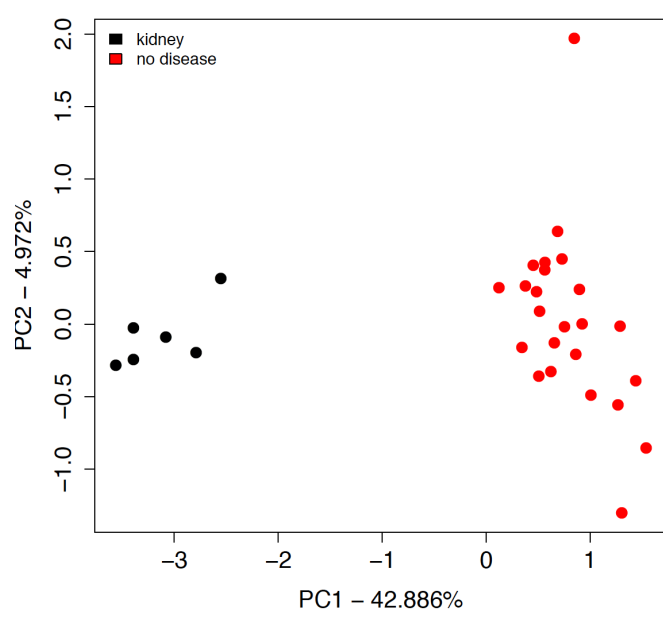


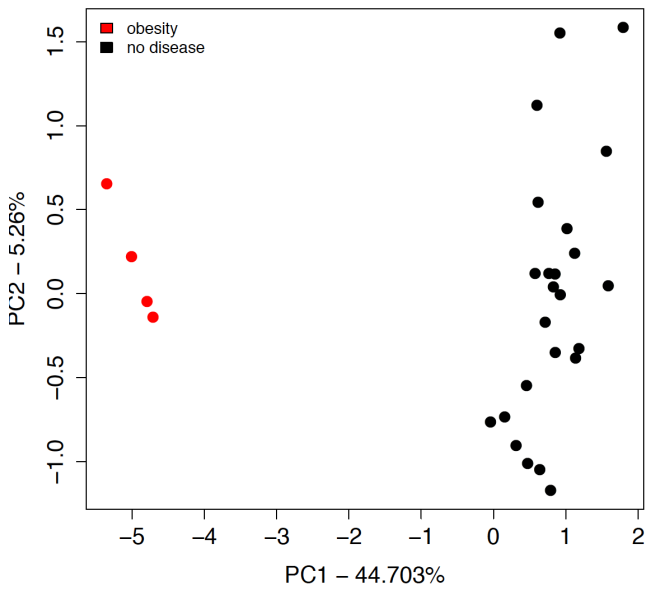
A Prostate disease DMR biomarkers



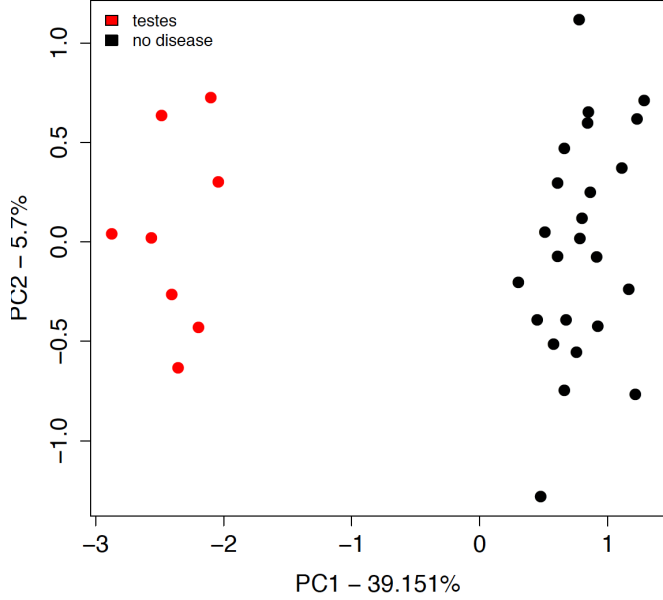
B Kidney disease DMR biomarkers



C Obesity disease DMR biomarkers



D Testis disease DMR biomarkers



Supplemental Table S1
Dioxin Study Transgenerational Control Pathology

Molecular ID	Early Puberty	Late Puberty	Testis Disease	Prostate Disease	Kidney Disease	Obesity	Tumor	Multiple Disease	Total Disease
DC51	-	-	+	-	-	-	-	-	1
DC1	-	-	-	-	-	-	-	-	0
DC2	-	-	+	-	+	-	-	+	2
DC3	-	-	+	-	+	-	-	+	2
DC52	-	-	+	-	-	-	-	-	1
DC4	-	-	n/a	-	-	-	-	-	n/a
DC5	-	-	-	-	-	-	-	-	0
DC6	-	-	-	-	-	-	-	-	0
DC7	-	-	-	-	-	-	-	-	0
DC8	-	-	-	-	-	-	-	-	0
DC9	-	-	-	-	-	-	-	-	0
DC10	-	-	-	-	-	-	-	-	0
DC11	-	-	-	+	-	-	-	-	1
DC12	-	-	-	-	-	-	-	-	0
DC13	-	-	+	-	-	-	-	-	1
DC14	-	-	-	n/a	-	-	-	-	n/a
DC15	-	-	-	n/a	-	-	-	-	n/a
DC16	-	-	-	n/a	-	-	-	-	n/a
DC17	-	-	n/a	-	+	-	-	-	1
DC53	-	-	-	-	-	-	-	-	0
DC18	-	-	-	-	-	-	-	-	0
DC19	-	-	-	-	+	-	-	-	1
DC20	-	+	n/a	-	-	-	-	-	1
DC54	-	-	-	-	-	-	-	-	0
DC55	-	-	-	-	-	-	-	-	0
DC21	-	-	-	-	-	-	-	-	0
DC22	-	-	-	-	-	-	-	-	0
DC56	-	-	-	n/a	-	-	-	-	n/a
DC57	-	-	n/a	-	-	-	-	-	n/a
DC23	-	-	-	+	-	-	-	-	1
DC24	-	-	-	+	+	-	-	+	2
DC25	+	-	-	+	-	-	-	+	2
DC26	+	-	-	+	-	-	-	+	2
DC27	+	-	-	-	-	-	-	-	1
DC28	-	-	-	-	-	-	-	-	0
DC29	-	-	-	n/a	-	-	-	-	n/a
DC30	-	-	-	-	-	-	-	-	0
DC31	-	-	-	+	-	-	-	-	1
DC32	-	-	-	+	-	-	-	-	1
DC33	-	-	-	-	-	-	-	-	0
DC34	-	-	-	+	+	-	-	+	2
DC35	-	-	-	-	-	-	-	-	0
DC36	-	-	-	-	-	-	-	-	0
DC60	-	-	n/a	-	+	-	-	-	1
DC37	-	-	n/a	-	-	-	-	-	n/a
DC38	-	-	+	+	-	-	-	+	2
DC39	n/a	n/a	-	-	+	-	-	-	1
DC40	n/a	n/a	n/a	n/a	+	-	-	-	1
DC41	n/a	n/a	-	n/a	-	-	-	-	n/a
DC42	-	-	-	-	-	-	-	-	0
DC43	-	-	-	-	+	-	-	-	1
DC44	-	-	+	n/a	-	-	-	-	1
DC45	-	-	-	-	-	-	-	-	0
DC46	-	-	-	-	-	-	-	-	0
DC47	-	-	-	-	-	-	-	-	0
DC48	-	-	-	-	-	-	-	-	0
DC49	-	-	-	-	-	-	-	-	0
DC50	-	-	-	-	-	-	-	-	0
Totals	3/55 = 5%	1/55 = 2%	7/51 = 14%	8/50 = 16%	10/58 = 17%	0/58 = 0%	0/58 = 0%	6/58 = 10%	

Supplemental Table S2
DMR Site Table Dioxin Prostate Disease p<1e-04

DMR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DMR1:5833001	1	5833001	5834000	1000	1	9.82E-05	-1.3343037	6	0.6		
DMR1:8265001	1	8265001	8266000	1000	1	4.53E-05	0.5657778	25	2.5		
DMR1:17920001	1	17920001	17921000	1000	1	7.67E-05	-1.6592805	14	1.4	Ptprk	Signaling
DMR1:47211001	1	47211001	47212000	1000	1	9.26E-05	0.8313245	16	1.6	Tmem181;Dyln1t1	Development
DMR1:96409001	1	96409001	96410000	1000	1	8.82E-05	0.6387662	18	1.8		
DMR1:123713001	1	123713001	123714000	1000	1	6.54E-05	-1.6048078	5	0.5		
DMR1:131120001	1	131120001	131121000	1000	1	7.93E-05	-1.0417797	9	0.9		
DMR1:133513001	1	133513001	133514000	1000	1	7.21E-05	-1.3535613	4	0.4	Mctp2	
DMR1:136084001	1	136084001	136085000	1000	1	2.29E-05	-1.5916141	16	1.6	AABR07004297.1	
DMR1:140509001	1	140509001	140510000	1000	1	4.57E-05	0.9129188	14	1.4	Det1	Metabolism
DMR1:183337001	1	183337001	183339000	2000	1	3.38E-05	-1.2689579	15	0.75		
DMR1:199207001	1	199207001	199208000	1000	1	5.21E-05	0.6994345	20	2	Fbxl19;Orai3	
DMR1:201291001	1	201291001	201293000	2000	1	9.74E-05	0.7148177	23	1.15	Tacc2	Unknown
DMR1:216269001	1	216269001	216270000	1000	1	1.18E-05	0.7575794	25	2.5	Trpm5	Receptor
DMR1:223501001	1	223501001	223502000	1000	1	1.37E-05	-1.3593447	8	0.8		
DMR1:243888001	1	243888001	243889000	1000	1	7.08E-07	-1.8136139	4	0.4		
DMR1:254150001	1	254150001	254151000	1000	1	1.51E-05	-1.7085781	5	0.5		
DMR2:6354001	2	6354001	6355000	1000	1	5.81E-05	-0.8139241	11	1.1		
DMR2:26163001	2	26163001	26164000	1000	1	4.27E-05	0.7395814	27	2.7	Iqgap2	Signaling
DMR2:31069001	2	31069001	31070000	1000	1	6.11E-05	-1.0258459	12	1.2		
DMR2:50639001	2	50639001	50640000	1000	1	1.49E-05	-2.0967792	3	0.3		
DMR2:153998001	2	153998001	153999000	1000	1	2.50E-05	-1.5283264	24	2.4		
DMR2:160711001	2	160711001	160714000	3000	1	1.62E-05	1.0512108	42	1.4		
DMR2:170163001	2	170163001	170164000	1000	1	1.79E-05	-1.5142331	2	0.2		
DMR2:171549001	2	171549001	171550000	1000	1	4.17E-05	-1.6427554	3	0.3		
DMR2:180746001	2	180746001	180747000	1000	1	2.72E-05	-0.620769	9	0.9		
DMR2:210993001	2	210993001	210994000	1000	1	2.64E-05	-1.5036451	15	1.5	Cyb561d1;Atxn7l2;Sypl2	Transport
DMR2:219275001	2	219275001	219276000	1000	1	8.93E-06	0.8915387	24	2.4		
DMR2:220600001	2	220600001	220601000	1000	1	7.44E-06	-1.7034749	7	0.7		
DMR2:238455001	2	238455001	238457000	2000	1	6.61E-05	-1.4812748	29	1.45	LOC102556447	
DMR2:245301001	2	245301001	245302000	1000	1	4.14E-05	-1.160217	8	0.8		
DMR2:250872001	2	250872001	250874000	2000	1	1.45E-05	1.1331425	27	1.35	Cla4	Transport
DMR2:255282001	2	255282001	255283000	1000	1	8.00E-05	-1.9788829	24	2.4		
DMR3:4010001	3	4010001	4011000	1000	1	6.76E-05	0.8382529	19	1.9	AC111292.4	
DMR3:5546001	3	5546001	5547000	1000	1	9.96E-05	0.8850322	28	2.8	Adamts13;Cacfd1	Protease
DMR3:6391001	3	6391001	6392000	1000	1	4.63E-05	-1.6783955	10	1		
DMR3:9016001	3	9016001	9017000	1000	1	2.15E-05	0.9250249	17	1.7	Ptpa	Signaling
DMR3:24002001	3	24002001	24003000	1000	1	4.92E-05	-1.1017593	8	0.8		
DMR3:35680001	3	35680001	35681000	1000	1	6.25E-06	0.845074	15	1.5	Lypd6	
DMR3:53014001	3	53014001	53015000	1000	1	3.09E-05	-1.5947981	13	1.3		
DMR3:81067001	3	81067001	81068000	1000	1	7.56E-05	-1.2661926	8	0.8		
DMR3:108877001	3	108877001	108879000	2000	1	3.50E-05	0.6203313	32	1.6		
DMR3:118048001	3	118048001	118049000	1000	1	2.25E-05	-1.2228094	11	1.1	Secisbp2l	Receptor
DMR3:139596001	3	139596001	139597000	1000	1	2.23E-05	-1.3959999	20	2		
DMR3:166639001	3	166639001	166640000	1000	1	5.24E-05	0.6205318	23	2.3		
DMR4:6030001	4	6030001	6031000	1000	1	2.92E-05	0.8554368	15	1.5	LOC100363537	
DMR4:47751001	4	47751001	47752000	1000	1	8.00E-07	-2.4559721	3	0.3		
DMR4:64967001	4	64967001	64968000	1000	1	2.38E-05	0.7451074	14	1.4	Creb3l2	Transcription
DMR4:73681001	4	73681001	73683000	2000	1	4.52E-07	1.0366938	17	0.85		
DMR4:123017001	4	123017001	123018000	1000	1	5.29E-05	0.7519034	23	2.3	Wnt7a	Signaling
DMR4:130202001	4	130202001	130203000	1000	1	3.62E-05	-1.8082076	8	0.8	Mitf	Transcription
DMR4:131055001	4	131055001	131056000	1000	1	1.26E-05	-1.7959671	14	1.4		
DMR4:139174001	4	139174001	139175000	1000	1	9.76E-05	-1.1046735	8	0.8	7SK	
DMR4:146444001	4	146444001	146445000	1000	1	3.11E-05	-1.3128279	8	0.8		
DMR4:149940001	4	149940001	149941000	1000	1	1.67E-05	0.9300867	20	2		
DMR5:13382001	5	13382001	13383000	1000	1	6.53E-07	1.0459768	10	1	Npbwr1	Receptor

DMR5:35382001	5	35382001	35383000	1000	1	6.25E-05	-1.6612027	11	1.1		
DMR5:116708001	5	116708001	116709000	1000	1	7.31E-05	-1.2488348	10	1	Nfia	Transcription
DMR5:121119001	5	121119001	121120000	1000	1	3.14E-06	-0.9940068	11	1.1		
DMR5:158920001	5	158920001	158921000	1000	1	6.61E-05	0.7342253	16	1.6		
DMR5:172655001	5	172655001	172656000	1000	1	8.46E-05	-1.4681247	13	1.3	Faap20;Prkcz	Signaling
DMR6:9526001	6	9526001	9527000	1000	1	2.75E-05	0.6022799	22	2.2	AABR07062799.1	
DMR6:10689001	6	10689001	10691000	2000	1	7.55E-07	0.9971092	40	2	Socs5	Signaling
DMR6:21883001	6	21883001	21884000	1000	1	3.45E-05	-1.6012637	11	1.1	Ttc27	
DMR6:25541001	6	25541001	25542000	1000	1	6.64E-05	0.5692356	18	1.8		
DMR6:37225001	6	37225001	37226000	1000	1	6.65E-05	-1.6432265	12	1.2		
DMR6:38283001	6	38283001	38284000	1000	1	1.31E-05	-1.5930236	9	0.9		
DMR6:47281001	6	47281001	47282000	1000	1	2.04E-06	-1.2953161	6	0.6		
DMR6:56771001	6	56771001	56772000	1000	1	3.07E-05	1.0823833	3	0.3	Vom2r49	Receptor
DMR6:72781001	6	72781001	72782000	1000	1	6.99E-05	-2.6861833	23	2.3	Dtd2	
DMR6:72957001	6	72957001	72958000	1000	1	2.85E-05	-1.5656031	2	0.2	Nubpl	Metabolism
DMR6:95892001	6	95892001	95893000	1000	1	2.78E-05	-1.6462702	11	1.1	AABR07064811.1	
DMR6:105557001	6	105557001	105559000	2000	1	5.74E-05	0.7011978	28	1.4	AABR07065044.1	
DMR6:110264001	6	110264001	110265000	1000	1	5.06E-05	0.6912134	8	0.8	AABR07065113.2	
DMR6:135417001	6	135417001	135418000	1000	1	3.99E-05	0.9035267	22	2.2	Ankrd9	
DMR6:138089001	6	138089001	138090000	1000	1	1.06E-05	-1.721641	16	1.6	Ighm;lgh-6	
DMR6:146112001	6	146112001	146113000	1000	1	1.42E-05	0.9757212	11	1.1		
DMR7:11158001	7	11158001	11160000	2000	1	4.68E-05	0.6825496	73	3.65	Nfic	Transcription
DMR7:12969001	7	12969001	12971000	2000	1	8.24E-05	0.8757176	45	2.25	Shc2;C2cd4c	Signaling
DMR7:14146001	7	14146001	14148000	2000	1	3.08E-05	0.5133531	40	2	Notch3;AABR07055864.1	Receptor
DMR7:15788001	7	15788001	15789000	1000	1	9.26E-06	-1.3898374	6	0.6	Zfp955a	
DMR7:34191001	7	34191001	34193000	2000	1	6.84E-05	-1.5978135	25	1.25		
DMR7:63439001	7	63439001	63441000	2000	1	6.06E-05	-1.067588	19	0.95		
DMR7:86732001	7	86732001	86733000	1000	1	7.65E-05	0.8856062	5	0.5	AABR07057765.1	
DMR7:90431001	7	90431001	90432000	1000	1	3.45E-05	-1.533918	3	0.3	AABR07057844.2	
DMR7:92779001	7	92779001	92780000	1000	1	3.45E-05	-1.6894086	9	0.9	Ext1	Metabolism
DMR7:121015001	7	121015001	121016000	1000	1	4.54E-06	-1.2908038	21	2.1	Nptxr	
DMR8:12550001	8	12550001	12551000	1000	1	7.98E-05	0.8548214	18	1.8		
DMR8:34723001	8	34723001	34724000	1000	1	8.56E-06	-2.3229275	12	1.2		
DMR8:37744001	8	37744001	37745000	1000	1	4.25E-05	-1.4159968	9	0.9		
DMR8:39921001	8	39921001	39922000	1000	1	1.63E-05	-1.7477194	7	0.7		
DMR8:48901001	8	48901001	48902000	1000	1	7.89E-06	-1.6507914	9	0.9		
DMR8:52542001	8	52542001	52543000	1000	1	5.83E-05	0.8910212	14	1.4		
DMR8:66991001	8	66991001	66992000	1000	1	4.39E-05	-0.9417272	11	1.1		
DMR8:68685001	8	68685001	68686000	1000	1	2.17E-05	-1.2194578	5	0.5	Smad3	Transcription
DMR8:83366001	8	83366001	83367000	1000	1	8.52E-05	-1.2297248	12	1.2	Hcrr2	Receptor
DMR8:85812001	8	85812001	85813000	1000	1	8.18E-05	-1.3684059	15	1.5	Cgas;Mto1	Translation
DMR8:106612001	8	106612001	106613000	1000	1	7.12E-06	1.069054	14	1.4	AABR07071244.1;Mrps22	Transcription
DMR8:112245001	8	112245001	112248000	3000	1	1.41E-05	0.627541	94	3.133		
DMR9:940001	9	940001	941000	1000	1	9.12E-05	0.6745749	13	1.3		
DMR9:5340001	9	5340001	5341000	1000	1	4.82E-05	-1.3587308	5	0.5	Slc5a7	Metabolism
DMR9:13800001	9	13800001	13801000	1000	1	2.25E-06	0.9751909	4	0.4		
DMR9:27859001	9	27859001	27860000	1000	1	6.67E-05	-1.3023599	8	0.8		
DMR9:39535001	9	39535001	39536000	1000	1	6.23E-05	0.8487706	5	0.5	AABR07067310.1;AABR07067310.2;Khdrbs2	Translation
DMR9:99801001	9	99801001	99802000	1000	1	2.88E-05	-1.8289451	8	0.8	Olr1353	
DMR10:2378001	10	2378001	2379000	1000	1	3.65E-05	-1.7597547	12	1.2		
DMR10:5752001	10	5752001	5753000	1000	1	9.37E-05	-1.98542	19	1.9		
DMR10:16869001	10	16869001	16870000	1000	1	5.99E-05	0.7732808	15	1.5	Ergic1	
DMR10:45418001	10	45418001	45421000	3000	1	3.91E-05	0.7834083	77	2.567	Obscn	Unknown
DMR10:50970001	10	50970001	50971000	1000	1	4.03E-05	0.9272712	18	1.8	Hs3st3a1	Metabolism
DMR10:55463001	10	55463001	55464000	1000	1	5.27E-07	1.1575045	9	0.9		
DMR10:56650001	10	56650001	56652000	2000	1	5.00E-05	0.4695292	55	2.75	Dlg4	Unknown
DMR10:67483001	10	67483001	67484000	1000	1	1.68E-05	-1.7770418	23	2.3	Atad5;Tefm;AABR07030108.2;AABR07030108.1	
DMR10:77624001	10	77624001	77625000	1000	1	9.03E-05	0.8673515	21	2.1		

DMR10:82813001	10	82813001	82815000	2000	1	3.34E-05	0.6858434	35	1.75	Ppp1r9b;Samd14	Signaling;Unknown
DMR10:101376001	10	101376001	101377000	1000	1	8.63E-05	-1.3637471	10	1		
DMR10:101799001	10	101799001	101801000	2000	1	2.76E-05	-1.6106999	37	1.85	Slc39a11	Metabolism
DMR10:102735001	10	102735001	102736000	1000	1	1.96E-05	-1.6953113	13	1.3		
DMR10:103701001	10	103701001	103702000	1000	1	9.24E-05	-1.1247519	25	2.5	Rab37	Signaling
DMR11:26683001	11	26683001	26684000	1000	1	3.46E-05	-1.3028074	8	0.8		
DMR11:30904001	11	30904001	30906000	2000	1	7.17E-05	1.2166954	34	1.7	Mrap	
DMR11:56194001	11	56194001	56195000	1000	1	8.77E-05	-1.4882229	14	1.4		
DMR11:71192001	11	71192001	71193000	1000	1	6.97E-05	0.8449002	15	1.5	Rubcn	
DMR12:34427001	12	34427001	34428000	1000	1	3.89E-05	-0.8734985	9	0.9		
DMR12:35694001	12	35694001	35695000	1000	1	6.37E-05	-1.1578693	10	1		
DMR12:37379001	12	37379001	37380000	1000	1	4.80E-05	0.6159133	32	3.2	Atp6v0a2	Metabolism
DMR12:44143001	12	44143001	44144000	1000	1	5.46E-06	0.8886716	19	1.9	Fbxw8;Tesc	Signaling
DMR12:49157001	12	49157001	49158000	1000	1	5.88E-05	1.1091368	17	1.7		
DMR13:84008001	13	84008001	84009000	1000	1	3.07E-05	-1.5398249	15	1.5	Cd247	Receptor
DMR13:86550001	13	86550001	86553000	3000	1	9.67E-05	-1.3126842	52	1.733		
DMR13:87794001	13	87794001	87795000	1000	1	3.02E-05	0.7588865	9	0.9		
DMR13:101165001	13	101165001	101166000	1000	1	5.41E-05	-1.3069313	10	1	Ccdc185	
DMR14:10480001	14	10480001	10481000	1000	1	7.94E-05	0.6929781	25	2.5	Helq	Transcription
DMR14:10887001	14	10887001	10888000	1000	1	5.97E-05	0.7143408	21	2.1	Sec31a	Transport
DMR14:37889001	14	37889001	37890000	1000	1	5.72E-05	0.8928491	22	2.2		
DMR14:84879001	14	84879001	84880000	1000	1	7.44E-05	-1.2072091	8	0.8	Ascc2	
DMR14:94812001	14	94812001	94813000	1000	1	3.74E-05	-0.8141654	14	1.4		
DMR14:101988001	14	101988001	101995000	7000	1	5.73E-05	1.5158745	109	1.557		
DMR14:103021001	14	103021001	103022000	1000	1	7.99E-05	-1.6811693	20	2		
DMR15:11001	15	11001	14000	3000	1	2.05E-05	-1.1386346	25	0.833		
DMR15:7277001	15	7277001	7278000	1000	1	2.15E-05	-1.4158286	4	0.4		
DMR15:83994001	15	83994001	83995000	1000	1	3.40E-05	-0.9460745	6	0.6	AABR07019020.1	
DMR15:102125001	15	102125001	102126000	1000	1	9.54E-05	0.7987342	51	5.1		
DMR16:5127001	16	5127001	5128000	1000	1	1.52E-05	-2.6143456	11	1.1	Cacna2d3	Transport
DMR16:8044001	16	8044001	8045000	1000	1	9.82E-05	0.6732415	27	2.7		
DMR16:26168001	16	26168001	26169000	1000	1	6.41E-05	-1.1483101	6	0.6		
DMR16:60052001	16	60052001	60053000	1000	1	9.89E-05	0.8229782	17	1.7	5S_rRNA	
DMR16:72104001	16	72104001	72105000	1000	1	4.87E-05	0.7194447	20	2	Adam3a	
DMR17:9336001	17	9336001	9337000	1000	1	2.31E-05	0.7967367	16	1.6	Macroh2a1	
DMR17:17022001	17	17022001	17023000	1000	1	3.39E-05	-1.540872	7	0.7		
DMR17:34906001	17	34906001	34907000	1000	1	4.15E-05	0.8117999	10	1	Irf4	Transcription
DMR17:43662001	17	43662001	43663000	1000	1	2.49E-05	-1.4270173	11	1.1	Hfe	Immune
DMR17:50613001	17	50613001	50615000	2000	1	1.71E-05	-1.057216	18	0.9		
DMR17:53305001	17	53305001	53306000	1000	1	9.44E-05	0.8166427	9	0.9	Hecw1	Protease
DMR17:77572001	17	77572001	77573000	1000	1	6.08E-05	0.8776844	10	1	AABR07028615.2	
DMR17:77585001	17	77585001	77586000	1000	1	3.85E-05	0.547652	52	5.2		
DMR17:87182001	17	87182001	87183000	1000	1	7.44E-05	-1.1739897	12	1.2		
DMR18:17022001	18	17022001	17023000	1000	1	4.34E-05	1.0116139	15	1.5	Fhod3	Cytoskeleton
DMR18:33290001	18	33290001	33291000	1000	1	3.66E-05	-1.0579369	6	0.6		
DMR18:47299001	18	47299001	47300000	1000	1	2.98E-05	-1.5525582	7	0.7	Ftmt	
DMR18:71019001	18	71019001	71020000	1000	1	7.19E-05	0.8398504	21	2.1	Dym	
DMR19:7973001	19	7973001	7974000	1000	1	1.31E-05	0.7009797	6	0.6		
DMR19:10531001	19	10531001	10533000	2000	1	9.70E-05	0.6214301	54	2.7	Ccdc102a	
DMR19:17286001	19	17286001	17287000	1000	1	3.65E-05	0.9859924	13	1.3	Aktip	Proteolysis
DMR19:19497001	19	19497001	19498000	1000	1	2.01E-06	0.8307041	20	2	Nkd1	Unknown
DMR19:26432001	19	26432001	26434000	2000	1	2.16E-05	-1.271258	5	0.25		
DMR19:32594001	19	32594001	32595000	1000	1	3.17E-05	0.9442314	19	1.9		
DMR19:41415001	19	41415001	41417000	2000	1	4.93E-05	0.6514825	31	1.55		
DMR19:43718001	19	43718001	43719000	1000	1	5.14E-05	0.7688835	15	1.5	Wdr59	
DMR19:46937001	19	46937001	46938000	1000	1	2.46E-05	-1.0535257	14	1.4		
DMR19:49889001	19	49889001	49890000	1000	1	8.24E-05	0.9676569	24	2.4	Cmip	Signaling

DMR20:4901001	20	4901001	4903000	2000	1	8.88E-05	-1.1158105	17	0.85	RT1-CE1;RT1-CE4;RT1-CE7;AABR07044408.1;RT1-CE5;AABR07044408.3;AABR07044408.2	Immune
DMR20:7362001	20	7362001	7363000	1000	1	8.13E-05	0.754523	16	1.6	LOC499407;LOC294154	
DMR20:9544001	20	9544001	9546000	2000	1	1.27E-05	1.056815	38	1.9	Dnah8	Cytoskeleton
DMR20:14226001	20	14226001	14227000	1000	1	2.46E-05	0.620992	22	2.2		
DMR20:21174001	20	21174001	21175000	1000	1	4.74E-05	-1.509404	7	0.7		
DMR20:48960001	20	48960001	48962000	2000	1	6.08E-05	0.8286568	40	2	AABR07045485.1	

Supplemental Table S3
DMR Site Table Dioxin Kidney Disease p<1e-04

DMR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DMR1:26609001	1	26609001	26610000	1000	1	9.10E-05	-1.0668694	7	0.7		
DMR1:84044001	1	84044001	84045000	1000	1	9.15E-06	0.8979562	40	4	Itpkc;Coq8b	Signaling
DMR1:124314001	1	124314001	124315000	1000	1	5.35E-05	0.9251134	17	1.7	AABR07004090.1	
DMR1:125588001	1	125588001	125590000	2000	1	5.00E-05	0.7041551	15	0.75	Fam189a1	Unknown
DMR1:126250001	1	126250001	126251000	1000	1	6.44E-05	0.590199	19	1.9		
DMR1:132451001	1	132451001	132452000	1000	1	5.61E-05	-0.8109381	11	1.1		
DMR1:140694001	1	140694001	140695000	1000	1	3.04E-06	0.4477087	8	0.8		
DMR1:170619001	1	170619001	170620000	1000	1	3.42E-05	0.4007726	16	1.6	Dchs1	Signaling
DMR1:225132001	1	225132001	225134000	2000	1	5.17E-05	-0.6737748	36	1.8	B3gat3;Rom1;Eml3;Mta2	Metabolism;Receptor;Transcription
DMR1:240780001	1	240780001	240781000	1000	1	1.94E-05	-0.9969527	4	0.4	AABR07006576.1	
DMR1:266481001	1	266481001	266482000	1000	1	3.79E-05	0.7170932	15	1.5	As3mt	Epigenetic
DMR1:280039001	1	280039001	280040000	1000	1	1.64E-05	0.8587304	10	1		
DMR2:18655001	2	18655001	18656000	1000	1	4.33E-05	0.6378092	14	1.4		
DMR2:52668001	2	52668001	52670000	2000	1	5.76E-05	0.4478987	16	0.8	AABR07008300.1	
DMR2:63478001	2	63478001	63479000	1000	1	3.37E-05	-1.0540635	5	0.5		
DMR2:102108001	2	102108001	102109000	1000	1	6.03E-05	-1.1037772	9	0.9		
DMR2:169344001	2	169344001	169345000	1000	1	6.83E-05	0.4951528	39	3.9		
DMR2:172033001	2	172033001	172034000	1000	1	9.26E-06	0.7783473	8	0.8		
DMR2:180603001	2	180603001	180604000	1000	1	4.43E-05	-1.0366432	8	0.8		
DMR2:214851001	2	214851001	214853000	2000	1	8.62E-05	-1.1453177	13	0.65		
DMR2:235482001	2	235482001	235483000	1000	1	2.35E-05	-0.9539306	9	0.9		
DMR2:236087001	2	236087001	236088000	1000	1	7.88E-05	-1.3103349	16	1.6		
DMR2:252212001	2	252212001	252213000	1000	1	6.51E-05	-1.1673649	17	1.7		
DMR3:28555001	3	28555001	28556000	1000	1	2.12E-06	-1.2090725	8	0.8	Kynu	Metabolism
DMR3:56882001	3	56882001	56883000	1000	1	6.86E-05	0.6469804	10	1	Gad1	Metabolism
DMR3:63062001	3	63062001	63063000	1000	1	2.50E-05	-0.9551486	10	1	Pde11a	Signaling
DMR3:100895001	3	100895001	100896000	1000	1	7.32E-05	-1.0732416	7	0.7		
DMR3:110391001	3	110391001	110392000	1000	1	3.01E-07	0.6017783	10	1	Bub1b	Signaling
DMR3:142606001	3	142606001	142607000	1000	1	7.48E-05	-1.2537515	12	1.2		
DMR3:153119001	3	153119001	153120000	1000	1	5.81E-05	-0.7280792	10	1	Dsn1;Soga1	
DMR4:7546001	4	7546001	7547000	1000	1	2.59E-07	-1.4480138	8	0.8	Klhl7	Cytoskeleton
DMR4:24067001	4	24067001	24068000	1000	1	9.90E-05	-0.8048194	13	1.3		
DMR4:32091001	4	32091001	32092000	1000	1	3.83E-05	-1.4474116	20	2	Sem1	
DMR4:46747001	4	46747001	46748000	1000	1	3.63E-05	-0.8944453	4	0.4		
DMR4:70909001	4	70909001	70910000	1000	1	5.00E-05	0.6911003	7	0.7	Ephb6;Trpv6	Receptor;Transport
DMR4:106155001	4	106155001	106156000	1000	1	5.56E-05	0.6315392	3	0.3		
DMR4:170225001	4	170225001	170226000	1000	1	1.31E-05	-0.7054187	14	1.4		
DMR5:25329001	5	25329001	25330000	1000	1	6.00E-07	-1.3752165	13	1.3	AABR07047256.1	
DMR5:60116001	5	60116001	60117000	1000	1	5.40E-05	0.7205939	24	2.4	Pax5	Transcription
DMR5:60993001	5	60993001	60994000	1000	1	7.94E-05	0.568824	18	1.8	Shb	
DMR5:76216001	5	76216001	76218000	2000	1	1.92E-06	0.6730518	24	1.2		
DMR5:82375001	5	82375001	82376000	1000	1	5.30E-05	0.6917963	4	0.4		
DMR5:88560001	5	88560001	88561000	1000	1	2.31E-05	-0.9680956	7	0.7	Tle1	Transcription
DMR5:124311001	5	124311001	124315000	4000	1	2.32E-05	-0.9622749	53	1.325	C8b	Immune
DMR5:134947001	5	134947001	134948000	1000	1	7.19E-05	-1.2037754	21	2.1	Lrrc41;Rad54l	Development;DNA Repair
DMR5:146038001	5	146038001	146039000	1000	1	8.40E-05	0.613032	10	1	LOC682102	
DMR5:156789001	5	156789001	156790000	1000	1	3.05E-05	-0.8969006	12	1.2	Cda	Metabolism
DMR5:159978001	5	159978001	159980000	2000	1	8.51E-05	-0.7568103	22	1.1	Hspb7;AC120594.1	Protein Binding
DMR6:11021001	6	11021001	11022000	1000	1	1.42E-05	-1.346316	20	2	Ttc7a;Stpg4	Metabolism
DMR6:31546001	6	31546001	31547000	1000	1	1.06E-05	-1.2093988	5	0.5		
DMR6:36034001	6	36034001	36035000	1000	1	7.75E-05	0.5688776	6	0.6		
DMR6:43292001	6	43292001	43294000	2000	1	2.81E-06	0.8762856	31	1.55	Asap2	Development
DMR6:66500001	6	66500001	66501000	1000	1	7.59E-05	-0.9188226	13	1.3		
DMR6:92517001	6	92517001	92518000	1000	1	2.75E-05	0.8847375	15	1.5	Nin	Transcription
DMR6:102160001	6	102160001	102161000	1000	1	8.09E-06	0.8496351	6	0.6	Tmem229b	Unknown
DMR6:133271001	6	133271001	133272000	1000	1	2.47E-06	-0.8565883	8	0.8		
DMR7:36842001	7	36842001	36843000	1000	1	1.05E-05	-1.1184397	13	1.3		
DMR7:124601001	7	124601001	124602000	1000	1	5.71E-05	-0.9305081	20	2	Scube1	Signaling
DMR7:125786001	7	125786001	125787000	1000	1	4.09E-06	0.918443	15	1.5	Arhgap8	Signaling
DMR8:22951001	8	22951001	22952000	1000	1	2.45E-05	-0.8579528	36	3.6	Ccdc159;Plppr2	
DMR8:56618001	8	56618001	56619000	1000	1	1.22E-05	0.7703794	13	1.3	Rdx	
DMR8:79728001	8	79728001	79729000	1000	1	7.92E-05	0.6960078	3	0.3	Rab27a	Signaling
DMR8:113915001	8	113915001	113916000	1000	1	9.96E-05	-0.8132934	13	1.3	Nek11	Signaling
DMR8:115058001	8	115058001	115059000	1000	1	9.42E-06	0.6181724	15	1.5	Poc1a	Unknown

DMR8:121448001	8	121448001	121449000	1000	1	8.81E-05	0.4337188	20	2	LOC102554058	
DMR8:132993001	8	132993001	132994000	1000	1	9.60E-05	-0.8242835	5	0.5	Ccr1	Receptor
DMR9:18006001	9	18006001	18008000	2000	1	9.71E-05	-0.79795	42	2.1	AABR07066826.2	
DMR9:119663001	9	119663001	119665000	2000	1	5.88E-05	0.5382302	27	1.35	Emilin2	Extracellular Matrix
DMR10:4705001	10	4705001	4706000	1000	1	3.08E-05	0.527484	21	2.1		
DMR10:29359001	10	29359001	29360000	1000	1	2.84E-05	-1.1587569	15	1.5	Ttc1	
DMR10:45231001	10	45231001	45232000	1000	1	8.12E-05	-0.9022424	18	1.8	Zfp39	Transcription
DMR10:50198001	10	50198001	50199000	1000	1	7.09E-05	-0.5583542	14	1.4	U6	
DMR10:53948001	10	53948001	53949000	1000	1	8.39E-05	-0.7201867	7	0.7		
DMR10:65525001	10	65525001	65526000	1000	1	8.19E-06	-0.9754486	9	0.9	Sdf2;RGD1307929	Growth Factors & Cytokines
DMR10:67383001	10	67383001	67386000	3000	1	8.46E-05	0.8325244	44	1.467	Crif3	
DMR10:78519001	10	78519001	78522000	3000	1	4.14E-05	-0.9647653	25	0.833		
DMR10:87975001	10	87975001	87976000	1000	1	9.94E-05	0.6869797	8	0.8		
DMR11:1053001	11	1053001	1054000	1000	1	4.48E-05	-0.7164864	9	0.9		
DMR11:29630001	11	29630001	29631000	1000	1	8.44E-05	0.8628979	8	0.8	AABR07033607.1;Krtap7-1	
DMR11:34484001	11	34484001	34485000	1000	1	6.03E-05	0.6461649	29	2.9	Hlcs	Metabolism
DMR12:11489001	12	11489001	11490000	1000	1	9.80E-05	-0.8474675	12	1.2	Smurf1	Metabolism
DMR12:15432001	12	15432001	15433000	1000	1	1.86E-07	0.6253055	11	1.1		
DMR12:22015001	12	22015001	22016000	1000	1	8.18E-05	0.8713572	9	0.9	LOC100362783;LOC102550456	Transcription
DMR12:51224001	12	51224001	51226000	2000	1	5.73E-05	-0.9326674	28	1.4	Mn1	Unknown
DMR13:51419001	13	51419001	51420000	1000	1	5.91E-05	0.6426144	17	1.7	Kdm5b	Transcription
DMR13:51630001	13	51630001	51631000	1000	1	8.40E-05	0.9200432	18	1.8	Ppp1r12b	Signaling
DMR13:65108001	13	65108001	65109000	1000	1	2.24E-05	-0.9161897	10	1		
DMR13:69459001	13	69459001	69460000	1000	1	4.37E-05	0.533714	9	0.9		
DMR13:74408001	13	74408001	74409000	1000	1	1.28E-05	-0.9206737	19	1.9	Angptl1	Growth Factors & Cytokines
DMR13:95062001	13	95062001	95063000	1000	1	7.58E-05	0.6259175	15	1.5	Sdccag8	
DMR13:100390001	13	100390001	100391000	1000	1	4.07E-05	-0.92745	12	1.2	Enah	Signaling
DMR13:107191001	13	107191001	107192000	1000	1	7.18E-05	-0.9321302	10	1	Ush2a	Extracellular Matrix
DMR14:6246001	14	6246001	6247000	1000	1	6.86E-05	-0.7497525	25	2.5		
DMR14:18628001	14	18628001	18629000	1000	1	3.06E-05	0.7055066	11	1.1	Epgn	Signaling
DMR14:37087001	14	37087001	37088000	1000	1	6.18E-05	-1.116355	6	0.6	Spata18	
DMR14:39797001	14	39797001	39798000	1000	1	4.23E-05	-1.1535159	13	1.3	Gabra2	Receptor
DMR15:418001	15	418001	419000	1000	1	4.49E-05	-0.7227506	12	1.2	Kcnma1	Metabolism
DMR15:25195001	15	25195001	25196000	1000	1	6.33E-05	-0.8698756	14	1.4		
DMR15:45766001	15	45766001	45767000	1000	1	9.89E-05	0.7458036	8	0.8	Fam124a	
DMR16:187001	16	187001	188000	1000	1	3.13E-05	-1.0072488	6	0.6		
DMR16:1252001	16	1252001	1253000	1000	1	2.16E-06	-1.0653278	8	0.8		
DMR16:4122001	16	4122001	4123000	1000	1	3.04E-05	-0.9859247	11	1.1		
DMR16:6606001	16	6606001	6607000	1000	1	5.96E-05	-0.7080445	10	1	U6;Tkt	Metabolism
DMR16:7384001	16	7384001	7386000	2000	1	2.61E-05	-0.923171	36	1.8	Dnah1	Cytoskeleton
DMR16:51299001	16	51299001	51300000	1000	1	3.52E-05	-0.9551617	3	0.3		
DMR16:52005001	16	52005001	52006000	1000	1	1.14E-05	-0.8979299	14	1.4		
DMR16:72705001	16	72705001	72707000	2000	1	3.88E-05	0.688901	13	0.65	AABR07026339.1	
DMR16:81490001	16	81490001	81491000	1000	1	1.99E-05	0.7333776	17	1.7	LOC688801;Cdc16	Metabolism
DMR17:1014001	17	1014001	1015000	1000	1	4.08E-08	-1.2320279	9	0.9		
DMR17:8125001	17	8125001	8126000	1000	1	3.62E-05	-0.7171551	23	2.3	AABR07026975.1;Trpc7	Transport
DMR17:40406001	17	40406001	40407000	1000	1	3.62E-05	-1.2567487	7	0.7		
DMR17:51269001	17	51269001	51270000	1000	1	1.76E-05	0.5704818	18	1.8		
DMR17:52298001	17	52298001	52299000	1000	1	4.00E-05	-0.9260444	9	0.9	Gli3	Transcription
DMR18:27362001	18	27362001	27363000	1000	1	9.47E-05	0.5067268	10	1	Nme5	Signaling
DMR18:33319001	18	33319001	33320000	1000	1	5.74E-05	-0.9611238	6	0.6		
DMR18:34960001	18	34960001	34961000	1000	1	7.17E-05	-0.8962104	7	0.7		
DMR18:65204001	18	65204001	65205000	1000	1	8.63E-06	0.4870311	20	2	Tcf4	Transcription
DMR18:71015001	18	71015001	71016000	1000	1	7.92E-05	0.4915763	16	1.6	Dym	
DMR18:78306001	18	78306001	78308000	2000	1	3.31E-06	0.5489711	42	2.1		
DMR19:19479001	19	19479001	19480000	1000	1	3.49E-05	-0.9693046	15	1.5	Nkd1	Unknown
DMR19:23137001	19	23137001	23138000	1000	1	3.29E-05	-0.7011565	16	1.6		
DMR19:42276001	19	42276001	42277000	1000	1	2.51E-05	-0.7319936	23	2.3		
DMR20:3581001	20	3581001	3583000	2000	1	8.74E-05	-1.2396762	52	2.6	Ddr1;Gtf2h4;Vars2	Receptor;Transcription;Metabolism
DMR20:6765001	20	6765001	6768000	3000	1	2.51E-05	0.4652484	50	1.667	Ppil1;Grm4	Immune;Receptor
DMR20:17218001	20	17218001	17219000	1000	1	2.96E-05	0.6009305	11	1.1	AABR07044685.1	
DMR20:18719001	20	18719001	18720000	1000	1	3.56E-05	0.5259929	13	1.3		
DMR20:22720001	20	22720001	22721000	1000	1	8.73E-05	-1.1159126	13	1.3	Nrbf2	Transcription
DMR20:25866001	20	25866001	25867000	1000	1	8.79E-05	0.4824531	3	0.3		
DMR20:31154001	20	31154001	31155000	1000	1	9.66E-05	-1.1432767	13	1.3	Lrrc20	Development
DMRX:98857001	X	98857001	98858000	1000	1	5.06E-05	-1.3956284	17	1.7		

Supplemental Table S4
DMR Site Table Dioxin Obesity p<1e-04

DMR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DMR1:3401001	1	3401001	3402000	1000	1	6.15E-05	0.9783637	12	1.2		
DMR1:14860001	1	14860001	14861000	1000	1	5.26E-05	-1.2963118	14	1.4		
DMR1:16304001	1	16304001	16305000	1000	1	4.69E-07	-0.9283369	21	2.1		
DMR1:47479001	1	47479001	47480000	1000	1	6.09E-05	-0.9983844	9	0.9	Rsph3	Cytoskeleton
DMR1:49230001	1	49230001	49231000	1000	1	9.75E-05	-1.2444418	18	1.8		
DMR1:51555001	1	51555001	51556000	1000	1	6.78E-05	-1.07467	15	1.5		
DMR1:63597001	1	63597001	63598000	1000	1	7.59E-05	-0.9654681	13	1.3		
DMR1:69371001	1	69371001	69372000	1000	1	5.89E-06	-1.0121788	7	0.7	Nlrp4a	Apoptosis
DMR1:77584001	1	77584001	77585000	1000	1	9.61E-05	0.6001781	10	1		
DMR1:127527001	1	127527001	127528000	1000	1	2.92E-05	-1.3949983	9	0.9		
DMR1:142925001	1	142925001	142926000	1000	1	7.79E-05	-1.1759702	19	1.9	Alpk3	Cytoskeleton
DMR1:162905001	1	162905001	162906000	1000	1	2.81E-05	0.8501194	9	0.9	Gdpd4	Metabolism
DMR1:162916001	1	162916001	162917000	1000	1	4.50E-05	-1.3887864	9	0.9	Gdpd4	Metabolism
DMR1:173752001	1	173752001	173753000	1000	1	5.10E-05	-1.419636	14	1.4	Lmo1	Transcription
DMR1:188001001	1	188001001	188002000	1000	1	2.46E-05	1.1514938	4	0.4		
DMR1:189380001	1	189380001	189381000	1000	1	2.46E-05	-1.2767454	5	0.5	Acsm2	Metabolism
DMR1:190818001	1	190818001	190819000	1000	1	1.34E-05	0.770539	11	1.1	Eef2k	Signaling
DMR1:221864001	1	221864001	221865000	1000	1	2.23E-05	-0.8796939	31	3.1	Nrxn2	Receptor
DMR1:242139001	1	242139001	242140000	1000	1	1.56E-05	0.8604877	9	0.9	Fxn	Metabolism
DMR1:250563001	1	250563001	250564000	1000	1	5.84E-05	-1.2345673	18	1.8	Asah2	Metabolism
DMR1:264836001	1	264836001	264837000	1000	1	5.56E-05	0.5252496	10	1	Kazald1	Epigenetic
DMR1:277076001	1	277076001	277077000	1000	1	1.30E-05	-1.3153924	17	1.7	Habp2	Protease
DMR2:38100001	2	38100001	38101000	1000	1	7.03E-05	-1.5348596	14	1.4	Ipo11	Transport
DMR2:43315001	2	43315001	43317000	2000	1	8.14E-06	0.7576591	30	1.5		
DMR2:121962001	2	121962001	121963000	1000	1	1.27E-05	0.720486	15	1.5		
DMR2:142597001	2	142597001	142598000	1000	1	7.84E-06	-1.3877118	6	0.6		
DMR2:143732001	2	143732001	143733000	1000	1	9.19E-05	-1.4102388	6	0.6		
DMR2:144540001	2	144540001	144541000	1000	1	1.20E-05	-1.291534	9	0.9	Spart	
DMR2:203849001	2	203849001	203850000	1000	1	2.55E-05	0.5047372	13	1.3	Igfs3	Immune
DMR2:228663001	2	228663001	228664000	1000	1	4.40E-05	0.9771674	13	1.3	RGD1306519	
DMR2:242685001	2	242685001	242686000	1000	1	3.20E-05	-1.9203933	25	2.5	Emcn	Development
DMR2:251832001	2	251832001	251833000	1000	1	1.42E-05	-1.0511953	15	1.5	RGD1560065;U5	
DMR2:263427001	2	263427001	263428000	1000	1	7.86E-05	-1.5214865	10	1	Negr1	Growth Factors & Cytokines
DMR3:3387001	3	3387001	3388000	1000	1	1.34E-05	-1.3536512	21	2.1	Camsap1;LOC100360117	
DMR3:7357001	3	7357001	7359000	2000	1	1.92E-05	0.5871627	26	1.3	Ak8	
DMR3:23233001	3	23233001	23234000	1000	1	5.83E-05	-1.7113201	13	1.3	Olfml2a	Receptor
DMR3:25730001	3	25730001	25732000	2000	1	1.24E-05	0.8741131	12	0.6		
DMR3:27976001	3	27976001	27977000	1000	1	7.60E-05	-1.8349549	13	1.3		
DMR3:80265001	3	80265001	80266000	1000	1	3.12E-05	-1.2802035	13	1.3	RGD1309540	Unknown
DMR3:82040001	3	82040001	82041000	1000	1	7.08E-05	-1.2092724	15	1.5		
DMR3:115465001	3	115465001	115466000	1000	1	7.43E-06	0.9939477	4	0.4		
DMR3:116550001	3	116550001	116551000	1000	1	7.14E-05	0.7002186	8	0.8		
DMR3:153374001	3	153374001	153375000	1000	1	9.32E-05	-1.6191746	14	1.4	Mroh8	
DMR3:169986001	3	169986001	169988000	2000	1	8.70E-05	-1.3701335	27	1.35		
DMR4:29707001	4	29707001	29708000	1000	1	4.17E-05	-1.4515404	14	1.4		
DMR4:38146001	4	38146001	38147000	1000	1	4.95E-05	-1.5695442	9	0.9		
DMR4:74446001	4	74446001	74447000	1000	1	5.27E-05	-0.9889342	12	1.2		
DMR4:81764001	4	81764001	81765000	1000	1	4.88E-05	-0.8825113	22	2.2		
DMR4:120994001	4	120994001	120995000	1000	1	3.31E-05	0.9115423	5	0.5	LOC102555094	
DMR4:127078001	4	127078001	127080000	2000	1	5.92E-05	-1.1364687	11	0.55		
DMR4:131575001	4	131575001	131577000	2000	1	8.57E-05	0.7925424	28	1.4	Foxp1	Transcription
DMR4:135682001	4	135682001	135683000	1000	1	6.55E-05	-1.0303245	8	0.8		
DMR4:160839001	4	160839001	160840000	1000	1	1.64E-05	-1.4243264	16	1.6		
DMR4:166919001	4	166919001	166920000	1000	1	8.39E-05	0.62768	8	0.8	Tas2r124;Tas2r102	
DMR4:171235001	4	171235001	171236000	1000	1	9.12E-07	-1.099421	30	3		
DMR4:177526001	4	177526001	177527000	1000	1	1.30E-05	-1.1902675	16	1.6		
DMR5:12232001	5	12232001	12233000	1000	1	9.35E-05	-1.0578103	12	1.2		
DMR5:20004001	5	20004001	20005000	1000	1	9.21E-05	0.5793856	15	1.5	Tox	Immune
DMR5:21906001	5	21906001	21907000	1000	1	2.16E-05	-1.4198234	17	1.7	Chd7	Epigenetic
DMR5:23067001	5	23067001	23068000	1000	1	2.15E-05	-1.3919683	13	1.3	Gdf6;AABR07047191.1	Signaling

DMR5:32490001	5	32490001	32491000	1000	1	2.93E-05	-1.4975727	3	0.3	U7	
DMR5:43982001	5	43982001	43983000	1000	1	1.73E-05	-1.3807763	10	1		
DMR5:48087001	5	48087001	48088000	1000	1	4.18E-05	-1.2961709	11	1.1	Ankrd6	
DMR5:81496001	5	81496001	81498000	2000	1	2.05E-06	0.711995	22	1.1	Astn2	Unknown
DMR5:116990001	5	116990001	116991000	1000	1	8.62E-05	-1.8831947	9	0.9	Tm2d1	Unknown
DMR5:126485001	5	126485001	126486000	1000	1	2.20E-05	-1.0059322	9	0.9		
DMR5:128274001	5	128274001	128275000	1000	1	9.09E-05	-1.6296792	30	3	Zfyve9	Transcription
DMR5:148155001	5	148155001	148156000	1000	1	2.50E-05	0.7757031	25	2.5		
DMR5:161776001	5	161776001	161778000	2000	1	1.10E-06	-1.4300601	19	0.95	Prdm2	Transcription
DMR5:170488001	5	170488001	170489000	1000	1	1.77E-05	0.6385373	29	2.9		
DMR5:171879001	5	171879001	171880000	1000	1	1.78E-05	0.7903407	30	3		
DMR6:2601001	6	2601001	2602000	1000	1	5.06E-05	0.8257887	5	0.5	Atl2	Signaling
DMR6:36808001	6	36808001	36809000	1000	1	6.26E-05	-1.2186526	6	0.6	Kcnc3	
DMR6:55665001	6	55665001	55666000	1000	1	7.98E-05	-1.4621893	13	1.3	Ankmy2	
DMR6:75282001	6	75282001	75283000	1000	1	6.81E-05	-1.1769875	20	2		
DMR6:86073001	6	86073001	86074000	1000	1	1.79E-05	0.7048133	8	0.8		
DMR6:93751001	6	93751001	93752000	1000	1	4.66E-05	-1.0821604	10	1	Dact1	Signaling
DMR6:104890001	6	104890001	104891000	1000	1	2.06E-05	-1.6632343	12	1.2	Slc8a3	Transport
DMR7:2539001	7	2539001	2540000	1000	1	6.82E-05	-1.2581062	14	1.4	Baz2a	Transcription
DMR7:42059001	7	42059001	42060000	1000	1	6.40E-05	0.6972441	6	0.6		
DMR7:49528001	7	49528001	49529000	1000	1	4.90E-05	-1.4713297	11	1.1	Lin7a	Cell Junction
DMR7:57264001	7	57264001	57265000	1000	1	6.83E-05	-1.3399705	9	0.9	Trhde	Signaling
DMR7:70888001	7	70888001	70889000	1000	1	9.02E-05	-1.0048366	15	1.5	Lrp1	Receptor
DMR7:131975001	7	131975001	131976000	1000	1	1.47E-05	-1.2733735	11	1.1		
DMR7:137481001	7	137481001	137482000	1000	1	8.85E-05	-1.2863291	16	1.6	AABR07058786.1	
DMR7:138917001	7	138917001	138918000	1000	1	7.31E-05	0.8654201	36	3.6		
DMR8:18527001	8	18527001	18528000	1000	1	9.22E-05	0.9868114	7	0.7	7SK	
DMR8:52963001	8	52963001	52964000	1000	1	4.16E-05	0.7961608	13	1.3		
DMR8:57577001	8	57577001	57578000	1000	1	7.49E-05	0.9476768	15	1.5		
DMR8:58643001	8	58643001	58644000	1000	1	5.09E-05	-1.2084926	17	1.7	Tnfaip8l3	Apoptosis
DMR8:70927001	8	70927001	70928000	1000	1	1.11E-06	-1.2210697	19	1.9	Rasl12;Slc51b	Signaling
DMR8:80289001	8	80289001	80290000	1000	1	2.67E-06	-1.4478261	9	0.9	Unc13c	Development
DMR8:91614001	8	91614001	91615000	1000	1	4.29E-05	1.0211324	9	0.9	Bckdhh	Metabolism
DMR8:106027001	8	106027001	106029000	2000	1	6.11E-09	-1.6979012	27	1.35		
DMR8:124407001	8	124407001	124408000	1000	1	9.70E-05	0.7332953	14	1.4	Tgfb2;AABR07071619.1	Growth Factors & Cytokines
DMR8:127551001	8	127551001	127552000	1000	1	8.69E-06	-1.9314789	14	1.4	Itga9	Extracellular Matrix
DMR9:18002001	9	18002001	18003000	1000	1	2.71E-06	0.6563751	3	0.3	AABR07066826.2	
DMR9:21223001	9	21223001	21224000	1000	1	2.72E-05	0.7185516	7	0.7	Ptchd4	Unknown
DMR9:37491001	9	37491001	37492000	1000	1	5.45E-05	0.7895008	10	1	Lgsn	Metabolism
DMR9:63614001	9	63614001	63616000	2000	1	3.97E-05	-0.9334226	37	1.85	Satb2	Epigenetic
DMR9:93284001	9	93284001	93285000	1000	1	3.74E-05	-0.9874033	12	1.2	Armc9	
DMR9:98118001	9	98118001	98119000	1000	1	8.44E-05	-1.0923702	15	1.5	Rab17;Prlh;Mlph	Signaling;Metabolism
DMR9:113981001	9	113981001	113982000	1000	1	3.16E-07	-1.7375351	9	0.9		
DMR10:29348001	10	29348001	29349000	1000	1	4.83E-05	0.9089051	9	0.9	Ttc1	
DMR10:36911001	10	36911001	36912000	1000	1	2.23E-05	-1.2680144	10	1	LOC103693323	
DMR10:42665001	10	42665001	42666000	1000	1	7.69E-05	0.6606703	4	0.4	Gria1	Receptor
DMR10:49966001	10	49966001	49967000	1000	1	1.32E-05	-1.4173937	12	1.2		
DMR10:56191001	10	56191001	56192000	1000	1	5.13E-05	0.8438013	11	1.1	Wrap53;Tp53	Transcription
DMR10:61493001	10	61493001	61494000	1000	1	4.50E-05	0.8913141	10	1	Pafah1b1	Metabolism
DMR10:63957001	10	63957001	63958000	1000	1	6.27E-05	-1.6893128	7	0.7	Doc2b	Metabolism
DMR10:70044001	10	70044001	70045000	1000	1	3.67E-05	-1.4806229	17	1.7		
DMR10:73520001	10	73520001	73521000	1000	1	7.95E-06	-1.904646	13	1.3	Brip1	Transcription
DMR10:102352001	10	102352001	102353000	1000	1	4.80E-06	-1.3753481	15	1.5	Sdk2	Development
DMR11:6092001	11	6092001	6093000	1000	1	2.26E-05	-0.6111178	9	0.9		
DMR11:16485001	11	16485001	16487000	2000	1	8.33E-05	0.8282516	24	1.2		
DMR11:23936001	11	23936001	23937000	1000	1	5.57E-05	1.0004708	6	0.6		
DMR11:48978001	11	48978001	48980000	2000	1	9.35E-06	0.96605	15	0.75		
DMR12:9902001	12	9902001	9904000	2000	1	6.56E-05	-1.3764512	48	2.4		
DMR12:27029001	12	27029001	27030000	1000	1	8.87E-05	-1.3448543	12	1.2		
DMR12:31493001	12	31493001	31494000	1000	1	8.71E-05	-1.3139675	10	1		
DMR13:47759001	13	47759001	47760000	1000	1	9.66E-05	0.8659849	5	0.5		
DMR13:55027001	13	55027001	55028000	1000	1	4.81E-05	-1.9035635	8	0.8		
DMR13:70111001	13	70111001	70112000	1000	1	1.84E-05	-1.2287372	19	1.9	Rgl1	Signaling
DMR13:70451001	13	70451001	70453000	2000	1	9.22E-05	-1.0222183	23	1.15	Nmnat2	Metabolism
DMR13:71453001	13	71453001	71454000	1000	1	3.97E-06	-1.4361173	13	1.3	AABR07021430.1;U6	

DMR13:85241001	13	85241001	85242000	1000	1	5.67E-06	-1.2233944	7	0.7	Fam78b	
DMR13:100699001	13	100699001	100700000	1000	1	1.99E-05	0.7406969	13	1.3		
DMR14:6911001	14	6911001	6912000	1000	1	4.27E-05	-0.8234684	6	0.6		
DMR14:28989001	14	28989001	28990000	1000	1	6.47E-05	0.5572171	21	2.1		
DMR14:42227001	14	42227001	42228000	1000	1	1.13E-05	-1.4844005	16	1.6	Shisa3	
DMR14:47471001	14	47471001	47472000	1000	1	1.86E-05	-1.3590648	16	1.6		
DMR14:80029001	14	80029001	80030000	1000	1	5.57E-05	0.7561365	15	1.5		
DMR14:82904001	14	82904001	82905000	1000	1	6.33E-06	0.8531919	13	1.3	Slc5a1	Transport
DMR14:88778001	14	88778001	88780000	2000	1	2.69E-05	-1.1381718	51	2.55	Tns3	Signaling
DMR14:103536001	14	103536001	103537000	1000	1	3.87E-06	-1.2612989	18	1.8		
DMR15:3087001	15	3087001	3088000	1000	1	5.21E-07	-1.1817091	24	2.4	Adk	Signaling
DMR15:19021001	15	19021001	19022000	1000	1	1.21E-05	-1.0974481	15	1.5		
DMR15:63809001	15	63809001	63810000	1000	1	4.86E-06	-1.3419712	9	0.9		
DMR15:101911001	15	101911001	101912000	1000	1	1.93E-05	-1.2513911	10	1		
DMR15:102306001	15	102306001	102307000	1000	1	5.81E-05	-0.9432197	24	2.4	Gpc6	Extracellular Matrix
DMR15:108017001	15	108017001	108018000	1000	1	3.10E-05	-1.1704758	15	1.5	Dock9	Cell Cycle
DMR16:10694001	16	10694001	10695000	1000	1	8.53E-05	1.0109294	19	1.9	Glud1;Fam25a	Metabolism
DMR16:12166001	16	12166001	12167000	1000	1	6.06E-05	0.952447	6	0.6	LOC102553110	
DMR16:62828001	16	62828001	62830000	2000	1	7.64E-05	-1.1018184	23	1.15		
DMR17:15085001	17	15085001	15087000	2000	1	3.00E-05	-0.8808335	42	2.1	Fbxw17	
DMR17:19077001	17	19077001	19078000	1000	1	5.93E-05	0.4812273	12	1.2		
DMR17:32588001	17	32588001	32589000	1000	1	5.11E-05	1.0698023	6	0.6		
DMR17:56820001	17	56820001	56821000	1000	1	5.34E-06	-1.0771848	8	0.8		
DMR17:56920001	17	56920001	56921000	1000	1	4.90E-05	1.0527433	13	1.3		
DMR17:63444001	17	63444001	63445000	1000	1	9.08E-05	-1.1381573	6	0.6		
DMR17:66241001	17	66241001	66242000	1000	1	7.54E-05	-0.9266228	15	1.5	Mtr;AABR07028349.1	Epigenetic
DMR17:83421001	17	83421001	83422000	1000	1	5.10E-05	-1.0490777	17	1.7	Plxdc2	Binding Protein
DMR17:87743001	17	87743001	87744000	1000	1	7.84E-06	-1.2432519	12	1.2	Arhgap21	
DMR18:16242001	18	16242001	16243000	1000	1	3.35E-06	0.7291555	17	1.7		
DMR18:27257001	18	27257001	27258000	1000	1	8.29E-05	0.8634636	3	0.3	Fam13b	
DMR18:37538001	18	37538001	37539000	1000	1	3.14E-05	-1.0317223	11	1.1		
DMR18:72292001	18	72292001	72293000	1000	1	7.30E-05	0.890582	15	1.5	Zbtb7c	Transcription
DMR19:17087001	19	17087001	17089000	2000	1	4.88E-05	-1.197427	28	1.4	Fto	
DMR19:22061001	19	22061001	22062000	1000	1	2.24E-05	-1.2743832	10	1	Phkb	Signaling
DMR19:32853001	19	32853001	32854000	1000	1	6.09E-05	-0.8985307	21	2.1	Slc10a7	
DMR19:41230001	19	41230001	41232000	2000	1	5.80E-05	0.5209844	33	1.65	Hydin	Unknown
DMR19:47908001	19	47908001	47910000	2000	1	7.60E-05	0.6207979	18	0.9		
DMR19:48183001	19	48183001	48184000	1000	1	1.79E-05	-1.6719455	18	1.8		
DMR20:35341001	20	35341001	35343000	2000	1	5.06E-05	-1.2598997	33	1.65	Man1a1;AABR07045140.1	Golgi
DMRX:96598001	X	96598001	96599000	1000	1	4.78E-05	0.5774274	36	3.6		

Supplemental Table S5
DMR Site Table Dioxin Testis Disease p<1e-04

DMR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DMR1:27828001	1	27828001	27829000	1000	1	6.27E-05	-1.0200624	5	0.5	Nkain2	Transport
DMR1:49018001	1	49018001	49021000	3000	1	4.37E-06	0.7645314	60	2		
DMR1:65641001	1	65641001	65642000	1000	1	5.38E-05	0.7632504	8	0.8	AABR07002066.2	
DMR1:76399001	1	76399001	76401000	2000	1	6.91E-07	-0.9419477	11	0.55	Sult2a1	Metabolism
DMR1:94016001	1	94016001	94017000	1000	1	4.09E-05	-0.8567823	11	1.1	AABR07003030.1	
DMR1:114685001	1	114685001	114686000	1000	1	3.10E-05	-1.0099441	3	0.3	Oca2	Transport
DMR1:184251001	1	184251001	184252000	1000	1	8.03E-05	-0.808145	8	0.8		
DMR1:187944001	1	187944001	187945000	1000	1	5.72E-05	0.5353141	18	1.8		
DMR1:231009001	1	231009001	231010000	1000	1	6.18E-05	-1.1544129	2	0.2		
DMR1:240933001	1	240933001	240934000	1000	1	2.38E-05	-0.8196913	18	1.8	Klf9	Transcription
DMR1:246223001	1	246223001	246224000	1000	1	2.47E-05	-0.5903982	18	1.8		
DMR1:279337001	1	279337001	279338000	1000	1	3.85E-05	-1.1478473	3	0.3		
DMR2:17259001	2	17259001	17260000	1000	1	9.39E-05	0.7915525	1	0.1		
DMR2:19988001	2	19988001	19989000	1000	1	1.01E-05	-0.9279788	14	1.4	Atg10	
DMR2:41213001	2	41213001	41214000	1000	1	9.22E-05	-0.5606677	11	1.1	Pde4d	Metabolism
DMR2:47949001	2	47949001	47950000	1000	1	1.27E-05	-0.8959558	10	1		
DMR2:91514001	2	91514001	91515000	1000	1	6.34E-05	-0.5386052	6	0.6		
DMR2:112483001	2	112483001	112484000	1000	1	1.21E-05	0.7197692	7	0.7	Spata16	
DMR2:133521001	2	133521001	133522000	1000	1	9.47E-05	0.9191366	7	0.7		
DMR2:155618001	2	155618001	155619000	1000	1	1.19E-05	-0.8873484	8	0.8		
DMR2:175145001	2	175145001	175146000	1000	1	7.43E-05	0.7223356	4	0.4	Fstl5	Hormone
DMR2:177907001	2	177907001	177908000	1000	1	1.40E-05	0.5964527	7	0.7	Rapgef2	
DMR2:203906001	2	203906001	203908000	2000	1	4.53E-05	0.5133551	27	1.35		
DMR2:214609001	2	214609001	214610000	1000	1	2.48E-05	0.8416226	2	0.2		
DMR2:224180001	2	224180001	224181000	1000	1	3.18E-05	-0.7700959	4	0.4		
DMR2:224689001	2	224689001	224690000	1000	1	5.19E-05	0.8056632	14	1.4		
DMR2:228990001	2	228990001	228992000	2000	1	9.19E-05	-0.4926704	29	1.45		
DMR2:241570001	2	241570001	241571000	1000	1	2.11E-06	-1.0162965	9	0.9		
DMR2:242745001	2	242745001	242746000	1000	1	3.61E-05	-0.7766994	7	0.7		
DMR2:252147001	2	252147001	252148000	1000	1	6.99E-05	0.4926826	17	1.7	Lpar3	Receptor
DMR2:258993001	2	258993001	258994000	1000	1	2.76E-05	-0.6298235	16	1.6	Adgrl2	
DMR2:261527001	2	261527001	261528000	1000	1	2.31E-05	-0.8925409	11	1.1		
DMR3:15235001	3	15235001	15236000	1000	1	3.72E-05	-0.714118	17	1.7	AABR07051518.1	
DMR3:25167001	3	25167001	25168000	1000	1	3.41E-05	-1.0163172	4	0.4		
DMR3:29451001	3	29451001	29452000	1000	1	9.77E-05	0.5942622	14	1.4	Gtdc1	Metabolism
DMR3:65048001	3	65048001	65049000	1000	1	3.79E-05	0.5616657	11	1.1		
DMR3:82165001	3	82165001	82166000	1000	1	4.33E-05	-0.9116526	11	1.1	Tspan18	Cytoskeleton
DMR3:83642001	3	83642001	83643000	1000	1	9.92E-05	-0.67026	12	1.2		
DMR3:102189001	3	102189001	102190000	1000	1	6.47E-05	0.8053078	7	0.7		
DMR3:146558001	3	146558001	146559000	1000	1	5.22E-05	0.6641404	18	1.8	Entpd6	Signaling
DMR3:150264001	3	150264001	150265000	1000	1	5.22E-05	-0.6648348	11	1.1		
DMR3:152804001	3	152804001	152805000	1000	1	3.08E-05	-0.8764615	10	1	Dlgap4	Unknown
DMR3:154407001	3	154407001	154408000	1000	1	8.81E-05	-0.7534899	25	2.5	Vstm2l	Unknown
DMR4:12361001	4	12361001	12362000	1000	1	1.13E-06	-1.0817062	4	0.4	AABR07059258.1	
DMR4:17463001	4	17463001	17464000	1000	1	3.78E-06	0.8265674	5	0.5	Sema3e	Development
DMR4:49921001	4	49921001	49922000	1000	1	1.23E-05	0.8531439	8	0.8		
DMR4:53769001	4	53769001	53770000	1000	1	9.25E-06	-0.8408241	9	0.9		
DMR4:56628001	4	56628001	56629000	1000	1	2.61E-05	0.7926485	18	1.8	Calu	Signaling
DMR4:74595001	4	74595001	74598000	3000	1	4.05E-05	-1.1714784	13	0.433		
DMR4:152215001	4	152215001	152216000	1000	1	4.54E-05	0.7143514	14	1.4	Erc1	Signaling
DMR4:170526001	4	170526001	170527000	1000	1	9.25E-06	-0.8117603	5	0.5	Atf7ip	
DMR5:12095001	5	12095001	12096000	1000	1	6.22E-06	-0.615415	15	1.5		
DMR5:21340001	5	21340001	21341000	1000	1	5.79E-05	-0.6478108	9	0.9	Ca8	
DMR5:58418001	5	58418001	58419000	1000	1	4.96E-05	-1.0104568	5	0.5	LOC100360821;Vcp	Cytoskeleton
DMR5:66364001	5	66364001	66365000	1000	1	3.66E-05	-0.9111269	11	1.1		
DMR5:105997001	5	105997001	105998000	1000	1	3.14E-05	0.7063719	7	0.7		
DMR5:143445001	5	143445001	143446000	1000	1	7.95E-05	0.4846632	16	1.6		
DMR5:154897001	5	154897001	154899000	2000	1	6.70E-05	-0.6888256	19	0.95	Luzp1	Transcription
DMR6:8321001	6	8321001	8322000	1000	1	1.51E-06	0.7538343	20	2	Slc3a1;Prepl	Metabolism;Protease

DMR6:11879001	6	11879001	11880000	1000	1	5.69E-05	0.4711699	17	1.7		
DMR6:44385001	6	44385001	44386000	1000	1	3.52E-06	-0.9512991	15	1.5		
DMR6:59059001	6	59059001	59060000	1000	1	6.80E-05	0.6023233	4	0.4		
DMR6:141711001	6	141711001	141713000	2000	1	2.80E-05	-0.8252775	17	0.85	AABR07065798.1	
DMR7:14083001	7	14083001	14084000	1000	1	6.40E-05	0.8670147	9	0.9		
DMR7:28227001	7	28227001	28228000	1000	1	1.65E-05	-1.085505	8	0.8		
DMR7:53950001	7	53950001	53951000	1000	1	5.93E-05	0.5939087	11	1.1	Osbp18	Receptor
DMR7:60473001	7	60473001	60474000	1000	1	2.51E-05	0.6787079	11	1.1		
DMR7:67104001	7	67104001	67105000	1000	1	3.28E-05	0.8250012	19	1.9	Ppm1h	Signaling
DMR7:88514001	7	88514001	88515000	1000	1	3.39E-05	-0.8757942	5	0.5		
DMR7:100666001	7	100666001	100667000	1000	1	1.04E-06	-0.776049	15	1.5		
DMR7:124601001	7	124601001	124602000	1000	1	2.77E-05	-0.9039286	20	2	Scube1	Signaling
DMR7:136468001	7	136468001	136470000	2000	1	2.23E-05	-0.8306497	10	0.5	AABR07058758.1	
DMR7:140114001	7	140114001	140115000	1000	1	8.90E-05	-0.8008501	15	1.5	Olr1111	
DMR7:140518001	7	140518001	140519000	1000	1	5.04E-06	-0.6255522	30	3	Kmt2d	Transcription
DMR8:1216001	8	1216001	1218000	2000	1	6.14E-05	-0.6103954	15	0.75		
DMR8:99556001	8	99556001	99558000	2000	1	9.47E-05	-0.742321	31	1.55		
DMR8:110552001	8	110552001	110554000	2000	1	8.49E-05	-0.8148463	23	1.15	Ephb1	Receptor
DMR9:13231001	9	13231001	13232000	1000	1	8.08E-05	-0.7820539	14	1.4	Kif6	Cytoskeleton
DMR9:40429001	9	40429001	40430000	1000	1	5.14E-05	0.7770004	2	0.2		
DMR9:43332001	9	43332001	43333000	1000	1	8.99E-05	0.6254894	15	1.5	U4;Zap70	Signaling
DMR9:70001001	9	70001001	70002000	1000	1	5.25E-05	0.5800757	12	1.2	AC141169.2	
DMR9:73059001	9	73059001	73061000	2000	1	6.78E-05	0.8503539	18	0.9		
DMR9:82796001	9	82796001	82797000	1000	1	3.07E-05	-0.5873505	14	1.4	AABR07068085.4	
DMR9:90659001	9	90659001	90660000	1000	1	5.64E-05	-0.8205154	1	0.1	AABR07068203.1	
DMR9:96096001	9	96096001	96097000	1000	1	9.53E-06	-0.9370212	15	1.5		
DMR10:9426001	10	9426001	9427000	1000	1	1.66E-05	0.5641217	10	1		
DMR10:16890001	10	16890001	16891000	1000	1	1.95E-05	0.6235173	13	1.3	Ergic1	
DMR10:48805001	10	48805001	48806000	1000	1	2.50E-05	-0.7099008	5	0.5	Pigl	Metabolism
DMR10:55065001	10	55065001	55066000	1000	1	6.63E-05	0.7139579	16	1.6	Pik3r5	Signaling
DMR10:63500001	10	63500001	63501000	1000	1	1.39E-05	0.5676834	14	1.4	Trarg1;Bhlha9	Transcription
DMR10:69982001	10	69982001	69983000	1000	1	6.08E-05	0.464357	11	1.1		
DMR10:70395001	10	70395001	70396000	1000	1	1.88E-05	-0.9197455	12	1.2	AC128859.3	
DMR11:34669001	11	34669001	34670000	1000	1	6.72E-05	-0.8309872	24	2.4	Ttc3	Unknown
DMR11:60366001	11	60366001	60368000	2000	1	3.94E-05	-0.7752417	12	0.6	LOC685767;Cd200	Immune
DMR11:69697001	11	69697001	69698000	1000	1	7.55E-05	0.757676	9	0.9	Kalrn	Signaling
DMR11:71105001	11	71105001	71106000	1000	1	6.44E-05	0.6624201	4	0.4	lqcg;Lrch3	Unknown
DMR13:22789001	13	22789001	22790000	1000	1	9.60E-05	-0.5444003	9	0.9		
DMR13:28132001	13	28132001	28133000	1000	1	1.90E-05	-1.0265831	7	0.7		
DMR14:10145001	14	10145001	10146000	1000	1	9.55E-05	-0.6799463	16	1.6		
DMR14:16786001	14	16786001	16787000	1000	1	2.36E-05	-0.886314	22	2.2	Shroom3	Cytoskeleton
DMR14:33277001	14	33277001	33278000	1000	1	7.44E-05	-0.6669061	14	1.4		
DMR14:91412001	14	91412001	91413000	1000	1	8.20E-05	-0.8428354	7	0.7	Zbbp	Development
DMR14:100107001	14	100107001	100108000	1000	1	7.08E-08	-1.2470118	13	1.3	Egfr	Receptor
DMR15:52681001	15	52681001	52683000	2000	1	5.46E-05	-0.8166652	10	0.5		
DMR16:1737001	16	1737001	1739000	2000	1	9.42E-05	-0.8272326	32	1.6		
DMR16:31944001	16	31944001	31945000	1000	1	8.03E-05	-0.8357159	16	1.6	AABR07025295.1	
DMR16:53574001	16	53574001	53575000	1000	1	9.73E-05	0.848981	8	0.8		
DMR16:71269001	16	71269001	71270000	1000	1	5.64E-05	-0.708019	20	2	Letm2;Fgfr1;AABR07026305.1	Signaling;Receptor
DMR17:1728001	17	1728001	1730000	2000	1	3.09E-05	-0.7903019	19	0.95	Cdc14b;U4	Signaling
DMR17:4679001	17	4679001	4680000	1000	1	6.72E-05	-0.5028561	18	1.8		
DMR17:7735001	17	7735001	7736000	1000	1	7.41E-05	-0.6438113	19	1.9	Spock1	Cytoskeleton
DMR17:34229001	17	34229001	34231000	2000	1	3.07E-05	0.6562757	20	1	Foxq1	Transcription
DMR17:60741001	17	60741001	60742000	1000	1	1.20E-05	-0.6187929	13	1.3		
DMR17:78665001	17	78665001	78666000	1000	1	4.69E-05	0.7096773	20	2		
DMR18:1605001	18	1605001	1607000	2000	1	3.56E-05	0.6490437	16	0.8		
DMR18:2500001	18	2500001	2501000	1000	1	4.27E-05	0.6353685	14	1.4	AABR07031164.1	
DMR18:63505001	18	63505001	63506000	1000	1	9.20E-05	-0.5827948	14	1.4		
DMR19:48134001	19	48134001	48135000	1000	1	3.26E-05	-0.7417181	9	0.9		
DMR20:8234001	20	8234001	8235000	1000	1	1.54E-05	0.6435351	13	1.3	Tbc1d22b	Signaling
DMR20:29667001	20	29667001	29668000	1000	1	6.16E-08	0.7912614	16	1.6	Spock2	Signaling
DMR20:42974001	20	42974001	42975000	1000	1	2.00E-05	0.7062043	4	0.4	AABR07045321.2;Marcks	
DMRX:3189001	X	3189001	3190000	1000	1	1.82E-05	0.8785281	8	0.8		
DMRX:119604001	X	119604001	119605000	1000	1	5.52E-05	-0.7455489	8	0.8	U6	