

Supplemental Table S2

(A) DDT Round Spermatid DHR List

DHR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DHR1:24888401+L	1	24888401	24888500	100	1	5.41E-05	-1.6163981	0	0	AABR07000738.1	
DHR1:116086301	1	116086301	116086500	200	1	5.84E-05	-1.9463774	2	1	Atp10a	Transport
DHR1:179972601	1	179972601	179975100	2500	1	5.32E-05	1.6245419	12	0.48		
DHR1:196186701	1	196186701	196186800	100	1	8.01E-06	-2.5323772	1	1		
DHR1:269436501	1	269436501	269436700	200	1	1.30E-05	2.3201821	0	0		
DHR2:48692001	2	48692001	48692300	300	1	2.04E-06	2.7754533	3	1		
DHR2:114565501	2	114565501	114565700	200	2	1.85E-11	-2.4727895	3	1.5		
DHR2:157009201	2	157009201	157009400	200	1	5.51E-05	-1.4707168	1	0.5		
DHR2:219525301	2	219525301	219525500	200	1	6.56E-05	-1.8820273	5	2.5		
DHR2:242007901	2	242007901	242008000	100	1	5.53E-05	-1.3061864	0	0	Ppp3ca	Signaling
DHR3:26410101	3	26410101	26410300	200	1	2.72E-05	-2.6214855	4	2		
DHR3:70799201	3	70799201	70799400	200	1	7.82E-05	-1.9068653	5	2.5		
DHR3:102234201	3	102234201	102234300	100	1	2.87E-05	-2.1407387	1	1		
DHR3:149856501	3	149856501	149856700	200	2	1.05E-07	-1.8950988	8	4	Cdk5rap1	Signaling
DHR3:169457801	3	169457801	169459300	1500	1	9.35E-06	2.0081008	9	0.6		
DHR3:173401701	3	173401701	173402000	300	1	7.72E-05	-1.8481771	1	0.333		
DHR4:63748701	4	63748701	63749000	300	1	1.76E-05	-2.4524937	0	0		
DHR4:126752601	4	126752601	126752800	200	1	2.36E-05	-1.4460772	0	0		
DHR4:165619301	4	165619301	165619500	200	2	1.13E-07	-2.5579882	3	1.5	Ybx3;RF00156	Unknown
DHR5:45446501	5	45446501	45446700	200	1	7.25E-07	2.7767324	0	0		
DHR5:74897201	5	74897201	74897300	100	1	2.71E-07	-2.6027233	5	5	AC134204.1;Akap2;RF00017	Signaling
DHR6:67091301	6	67091301	67091400	100	1	3.40E-05	-1.8315189	2	2	Nova1	Transcription
DHR7:22395401	7	22395401	22396600	1200	1	4.51E-05	0.7553002	2	0.167		
DHR7:53452301	7	53452301	53452900	600	1	6.46E-05	1.9021529	5	0.833		
DHR7:53504901	7	53504901	53505000	100	1	2.58E-07	2.8141545	0	0		
DHR7:114548401	7	114548401	114548700	300	1	3.00E-05	-1.3713732	1	0.333	Ptk2	Signaling
DHR8:10334701	8	10334701	10335200	500	1	5.92E-05	2.187003	5	1		
DHR8:10675201	8	10675201	10675300	100	1	7.33E-05	-1.5115469	0	0		
DHR8:103539201	8	103539201	103539400	200	1	6.46E-07	2.4662079	0	0	Trpc1	Transport
DHR9:22025001	9	22025001	22026500	1500	1	1.77E-05	2.1357692	3	0.2		
DHR9:67578901	9	67578901	67579100	200	1	9.59E-05	1.7692777	3	1.5	Cd28	Receptor
DHR9:103473601	9	103473601	103474000	400	1	3.19E-05	2.4458437	4	1		
DHR9:116461301	9	116461301	116461400	100	1	6.94E-05	2.3745356	0	0		
DHR13:14200701	13	14200701	14201000	300	1	4.20E-05	1.8751983	7	2.333		
DHR13:58444501	13	58444501	58444600	100	1	2.95E-05	-2.0140164	1	1		
DHR13:72018701	13	72018701	72018900	200	1	4.29E-05	2.1972074	3	1.5	Cacna1e	Transport
DHR14:46547101	14	46547101	46548900	1800	1	9.66E-05	0.7659273	39	2.167		
DHR14:94625501	14	94625501	94625700	200	1	4.43E-05	-0.7254696	2	1		
DHR15:67129301	15	67129301	67129500	200	1	9.87E-05	2.1592131	0	0		
DHR17:76671301	17	76671301	76671400	100	1	5.96E-05	1.6314816	0	0	Camk1d	Signaling
DHR17:89385101	17	89385101	89396800	11700	5	8.19E-09	1.6324951	86	0.735		
DHR17:89407901	17	89407901	89411600	3700	2	1.22E-05	0.8545634	26	0.703		
DHR17:89412701	17	89412701	89419300	6600	4	1.65E-07	0.9051095	68	1.03		
DHR17:89427101	17	89427101	89428900	1800	1	3.41E-05	1.1777023	17	0.944		
DHR17:89430101	17	89430101	89442200	12100	7	1.24E-06	1.0274704	72	0.595		
DHR18:37041501	18	37041501	37041700	200	2	1.67E-07	-1.5397304	0	0	Ppp2r2b	Signaling
DHR18:47369001	18	47369001	47369200	200	1	3.25E-05	-1.9499729	0	0		
DHR18:66430701	18	66430701	66432500	1800	1	5.02E-05	1.8780219	20	1.111		
DHR19:204801	19	204801	208400	3600	1	6.83E-05	0.9875035	22	0.611	LOC108348293	
DHR19:391801	19	391801	392000	200	1	6.22E-05	1.3196853	2	1	LOC102547811	EST
DHR19:26959901	19	26959901	26960000	100	1	1.07E-05	-2.2558462	2	2		
DHR19:28603101	19	28603101	28603300	200	1	7.84E-05	-1.5002089	2	1	AABR07043449.1	
DHR19:28881501	19	28881501	28881700	200	1	3.89E-05	-1.354041	1	0.5		

DHR20:4678301	20	4678301	4680100	1800	1	7.22E-05	-1.219849	13	0.722	RT1-CE1;AABR07044397.1;RT1-CE4;AABR07044404.1	Immune
DHR20:4939601	20	4939601	4939900	300	1	2.26E-06	-1.8397839	1	0.333	RT1-CE1;RT1-CE4;AABR07044408.1;RT1-CE3	Immune
DHR20:5399001	20	5399001	5399500	500	1	4.57E-07	2.7761432	7	1.4	RT1-A1	Immune
DHRX:322501	X	322501	325600	3100	1	4.18E-05	1.7944409	18	0.581		
DHRX:117439701	X	117439701	117441200	1500	1	1.77E-05	2.3223174	13	0.867		
DHRX:118675601	X	118675601	118675700	100	1	9.50E-05	-2.1364255	0	0		
DHRX:150223001	X	150223001	150223300	300	1	9.82E-05	-1.6634364	6	2		
DHRX:150526001	X	150526001	150529400	3400	1	9.33E-05	2.4049182	12	0.353		

(B) DDT Caput DHR List

DHR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DHR1:30130601	1	30130601	30133600	3000	1	5.89E-05	1.6519664	25	0.833		
DHR1:38079701	1	38079701	38081400	1700	1	1.94E-05	1.4974718	13	0.765		
DHR1:39045901	1	39045901	39047900	2000	1	8.50E-05	-1.4114117	15	0.75		
DHR1:54290001	1	54290001	54291000	1000	1	7.71E-05	1.936333	6	0.6	AABR07001610.1;LOC102551080	
DHR1:76608501	1	76608501	76608700	200	2	4.48E-06	2.3180353	1	0.5	Sult2a2	Metabolism
DHR1:86140301	1	86140301	86141300	1000	1	8.96E-05	-1.93554	6	0.6	Vom2r10	Receptor
DHR1:179599001	1	179599001	179599500	500	1	5.88E-07	1.3631321	6	1.2		
DHR1:181925201	1	181925201	181928100	2900	1	3.07E-05	1.7646905	33	1.138		
DHR1:182777001	1	182777001	182778100	1100	1	6.96E-05	2.0192886	9	0.818		
DHR2:3325801	2	3325801	3326800	1000	1	5.52E-07	2.604142	11	1.1		
DHR2:47057101	2	47057101	47057200	100	1	6.96E-05	-1.9338931	1	1	Itga2	Signaling
DHR2:61619701	2	61619701	61619800	100	1	7.51E-05	1.7142687	1	1		
DHR2:76206401	2	76206401	76207100	700	1	9.04E-05	1.9747039	3	0.429		
DHR2:162108601	2	162108601	162108800	200	1	7.92E-05	1.9473502	2	1		
DHR2:192227201	2	192227201	192227400	200	1	4.72E-05	2.0597676	0	0		
DHR2:197219801	2	197219801	197220200	400	1	4.25E-05	2.0596633	6	1.5	RF00002	
DHR2:197496901	2	197496901	197497600	700	1	8.87E-05	1.7169487	6	0.857		
DHR2:218356201	2	218356201	218356400	200	1	1.17E-05	2.073891	2	1		
DHR2:222703501	2	222703501	222703600	100	1	2.59E-05	2.2131333	0	0	Dpyd	Metabolism
DHR2:266189101	2	266189101	266189300	200	1	8.35E-05	1.5330014	3	1.5		
DHR3:133742201	3	133742201	133742800	600	1	3.50E-05	1.6112131	6	1		
DHR3:133967901	3	133967901	133968200	300	1	8.99E-05	-1.4765032	0	0		
DHR3:145938701	3	145938701	145939000	300	1	8.94E-05	1.478192	1	0.333		
DHR3:165410801	3	165410801	165411000	200	1	5.79E-05	-1.7658427	0	0	AABR07054639.1	
DHR4:3425901	4	3425901	3426100	200	1	9.82E-05	-1.3413506	1	0.5		
DHR4:53028301	4	53028301	53028600	300	1	4.55E-05	-1.4672048	4	1.333		
DHR4:135603301	4	135603301	135603600	300	1	5.29E-05	1.7497501	4	1.333		
DHR4:148503001	4	148503001	148504700	1700	1	3.36E-05	2.2863557	14	0.824		
DHR4:162306301	4	162306301	162306400	100	1	5.66E-05	2.0981169	0	0	Clec2dl1;Clec2d	Development
DHR4:164589401	4	164589401	164589600	200	1	2.58E-05	-2.1779775	3	1.5	Ly49s4;Ly49i4	Receptor
DHR5:8926301	5	8926301	8926600	300	1	4.11E-05	1.9738915	5	1.667	Ppp1r42	
DHR5:15107301	5	15107301	15107500	200	1	2.90E-06	3.1393516	1	0.5		
DHR5:16284501	5	16284501	16285600	1100	1	1.29E-05	1.5544401	27	2.455		
DHR5:24717401	5	24717401	24720300	2900	1	2.08E-05	0.9556804	18	0.621	AABR07047221.1	
DHR5:24754801	5	24754801	24761100	6300	1	8.99E-05	1.5936224	56	0.889	AABR07047221.1	
DHR5:24815901	5	24815901	24817700	1800	1	3.01E-06	1.8900487	14	0.778	AABR07047221.1	
DHR5:49912501	5	49912501	49912900	400	1	9.87E-05	1.3732729	2	0.5		
DHR5:58001901	5	58001901	58002200	300	1	7.29E-06	-2.1700809	2	0.667	Dnai1	Cytoskeleton
DHR6:19824501	6	19824501	19826800	2300	1	8.70E-06	2.2431	20	0.87		
DHR6:42044401	6	42044401	42044500	100	1	9.78E-08	2.5957097	1	1		
DHR6:50668901	6	50668901	50669100	200	1	4.28E-05	-2.23717	1	0.5		
DHR6:103799601	6	103799601	103803100	3500	1	3.74E-05	-1.4926898	26	0.743	AABR07064998.2;AABR07064998.1	
DHR6:139990201	6	139990201	139990900	700	1	2.58E-05	-2.015583	1	0.143	AABR07065740.1	
DHR7:279801	7	279801	280000	200	1	3.90E-05	1.9008808	3	1.5		
DHR7:7487501	7	7487501	7489900	2400	1	4.11E-05	2.0109218	21	0.875		
DHR7:21598901	7	21598901	21599100	200	1	9.98E-05	-1.7759741	0	0		
DHR7:21682801	7	21682801	21683300	500	1	8.71E-05	2.3935243	1	0.2		
DHR7:22010601	7	22010601	22014600	4000	1	6.87E-05	1.5317105	25	0.625		
DHR7:35621701	7	35621701	35622300	600	1	7.10E-05	2.1615126	2	0.333		
DHR7:83221301	7	83221301	83222600	1300	1	1.56E-05	2.1367253	12	0.923		
DHR7:86781101	7	86781101	86781400	300	1	7.35E-05	2.0541121	1	0.333	AABR07057765.1	
DHR8:10647101	8	10647101	10647700	600	1	6.23E-05	1.7650271	6	1		
DHR8:37144001	8	37144001	37144100	100	1	7.10E-05	-2.0099961	3	3		
DHR9:7255401	9	7255401	7255500	100	1	7.48E-05	1.8369687	3	3		

DHR9:24716301	9	24716301	24719100	2800	1	1.92E-05	1.9746245	32	1.143		
DHR9:118945501	9	118945501	118945700	200	1	5.83E-05	-1.870706	2	1	Dlgap1	Signaling
DHR10:854401	10	854401	854500	100	1	2.53E-07	2.8817345	0	0	Myh11;Nde1	Cytoskeleton; Development
DHR11:90459201	11	90459201	90459400	200	1	4.78E-05	1.3825382	0	0		
DHR12:49171701	12	49171701	49171800	100	1	4.64E-05	-2.0869442	1	1		
DHR13:25407801	13	25407801	25408500	700	1	6.65E-05	-1.7182997	5	0.714		
DHR13:42426001	13	42426001	42429100	3100	1	6.65E-05	1.630022	33	1.065	Nckap5	
DHR13:90145301	13	90145301	90149900	4600	5	7.78E-07	-2.2797344	55	1.196	Cd48	Immune
DHR13:103015201	13	103015201	103015400	200	1	2.53E-05	-1.9467413	10	5		
DHR13:105667901	13	105667901	105668000	100	1	3.90E-05	-1.8510712	1	1	Spata17	
DHR13:112858801	13	112858801	112859000	200	1	9.23E-05	-2.0800345	1	0.5		
DHR14:96886901	14	96886901	96887000	100	1	2.57E-05	-2.096594	7	7	AABR07016332.1	
DHR15:21280101	15	21280101	21280200	100	1	3.79E-06	2.2458375	1	1		
DHR15:60059901	15	60059901	60060200	300	1	5.18E-05	1.5059873	4	1.333	Dnajc15	Transcription
DHR15:90829501	15	90829501	90829700	200	1	1.07E-05	2.2084926	3	1.5	Mycbp2;AABR07019140.1	Metabolism
DHR15:93243501	15	93243501	93244400	900	1	5.49E-06	1.998557	12	1.333	Mycbp2	Metabolism
DHR15:110431201	15	110431201	110431400	200	1	1.24E-05	-1.6836503	2	1	Fgf14;AC109837.1	
DHR16:662701	16	662701	663300	600	1	6.52E-05	-1.1436619	3	0.5		
DHR16:64975701	16	64975701	64979300	3600	1	5.14E-05	-1.3577215	19	0.528	AABR07026125.1	
DHR17:10300901	17	10300901	10301000	100	1	9.15E-05	1.6463594	0	0		
DHR17:14143001	17	14143001	14143200	200	1	5.03E-05	-1.8933896	6	3		
DHR17:30500701	17	30500701	30500800	100	1	3.90E-05	1.7680686	0	0		
DHR17:53559501	17	53559501	53559700	200	1	3.22E-05	2.3070036	0	0	Hecw1	Protease
DHR17:65602101	17	65602101	65602200	100	1	3.74E-05	2.1394303	0	0	Ryr2	Receptor
DHR17:89385801	17	89385801	89397000	11200	8	2.67E-06	0.8336181	85	0.759		
DHR17:89407701	17	89407701	89411600	3900	4	4.97E-06	0.5768733	27	0.692		
DHR17:89412701	17	89412701	89419300	6600	7	3.21E-07	0.8315577	68	1.03		
DHR17:89430001	17	89430001	89442200	12200	12	1.64E-07	0.8697929	73	0.598		
DHR17:89443301	17	89443301	89447300	4000	1	4.01E-05	0.6385889	24	0.6	AABR07028872.1	
DHR17:89450301	17	89450301	89464000	13700	7	6.47E-06	0.8397715	96	0.701	AABR07028872.1	
DHR18:5383901	18	5383901	5384700	800	1	1.32E-05	-1.6553559	6	0.75		
DHR18:83735701	18	83735701	83735900	200	1	9.69E-06	-1.8875467	2	1	RF00003	
DHR19:331001	19	331001	331500	500	1	2.60E-05	-0.7474444	3	0.6	AABR07042611.1;LOC501297	
DHR19:28966501	19	28966501	28966700	200	1	7.36E-05	-1.0735411	2	1	LOC501317	EST
DHR19:29292601	19	29292601	29292800	200	1	9.20E-05	-1.3981489	3	1.5	AABR07043564.1	
DHR20:2948401	20	2948401	2950400	2000	1	6.27E-05	-1.9746051	28	1.4	AABR07044340.1	
DHR20:4692801	20	4692801	4694000	1200	1	4.53E-05	2.266428	5	0.417	RT1-CE1;RT1-CE4;AABR07044404.1;RT1-CE7	Immune
DHR20:4903901	20	4903901	4904600	700	1	2.01E-05	-1.8887848	7	1	RT1-CE1;RT1-CE4;RT1-CE7;AABR07044408.1;RT1-CE5;AABR07044408.3;AABR07044408.2	Immune
DHR20:37482601	20	37482601	37482800	200	1	4.79E-05	1.8146484	0	0	Tbc1d32	Unknown
DHRX:316001	X	316001	324100	8100	1	5.29E-05	1.7497261	40	0.494		
DHRX:325201	X	325201	330100	4900	1	5.09E-05	1.1632658	29	0.592		
DHRX:2952101	X	2952101	2953100	1000	1	2.57E-05	-2.0965515	6	0.6		
DHRX:32643401	X	32643401	32644500	1100	1	3.37E-06	-2.1661762	10	0.909		
DHRX:46961401	X	46961401	46961500	100	1	9.58E-05	2.1339948	1	1		
DHRX:70401101	X	70401101	70401400	300	1	4.22E-05	1.8438171	4	1.333	Awat1	Metabolism
DHRX:80454401	X	80454401	80457200	2800	7	2.86E-07	2.3654307	11	0.393		
DHRX:89078801	X	89078801	89078900	100	1	4.28E-05	-2.237179	1	1		
DHRX:91560801	X	91560801	91561600	800	1	3.36E-05	-1.7571776	9	1.125		
DHRX:150228201	X	150228201	150229300	1100	1	7.47E-05	-2.0437197	9	0.818		
DHRX:150606401	X	150606401	150607500	1100	1	7.45E-05	-1.5564067	6	0.545		

(C) DDT Cauda DHR List

DHR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DHR1:148308901	1	148308901	148309000	100	1	2.10E-06	2.0727644	3	3		
DHR1:153058001	1	153058001	153058100	100	1	7.15E-05	2.0348312	0	0	Tmem135	Unknown
DHR1:189008801	1	189008801	189009100	300	1	7.34E-05	2.1542411	3	1	AABR07005581.1;RF00560	
DHR2:155101801	2	155101801	155102400	600	1	5.68E-06	2.2454452	3	0.5	AABR07010907.1	
DHR2:160936601	2	160936601	160936700	100	1	1.37E-05	-2.0595262	1	1		
DHR2:194120801	2	194120801	194121000	200	1	7.29E-05	-2.1001661	3	1.5		
DHR3:78904001	3	78904001	78904100	100	1	7.00E-05	2.0547735	1	1		
DHR3:143902201	3	143902201	143902300	100	1	7.89E-05	1.7920024	0	0	Andpro	
DHR3:149856501	3	149856501	149856700	200	2	3.55E-07	-2.3833467	8	4	Cdk5rap1	Signaling
DHR5:653901	5	653901	655700	1800	1	6.30E-05	1.7675615	22	1.222		
DHR7:447801	7	447801	449800	2000	1	6.70E-05	1.9712436	12	0.6	AABR07055191.1	
DHR7:10257101	7	10257101	10257700	600	1	3.55E-06	-1.8616112	1	0.167	AABR07055812.1	
DHR7:21795601	7	21795601	21795700	100	1	1.54E-05	-2.1025766	2	2		
DHR7:32729901	7	32729901	32730000	100	1	3.17E-05	1.9724425	2	2		
DHR7:114548401	7	114548401	114548600	200	1	2.33E-05	-1.517978	0	0	Ptk2	Signaling
DHR9:75401701	9	75401701	75401900	200	1	9.02E-05	1.7106544	0	0	ErbB4	Signaling
DHR11:29748301	11	29748301	29748400	100	1	4.28E-05	2.0948911	1	1		
DHR11:88456301	11	88456301	88456400	100	1	1.93E-05	2.48624	1	1	Spag6l	
DHR14:9915401	14	9915401	9915700	300	1	1.50E-05	1.8401882	5	1.667	RF00026	
DHR16:64977901	16	64977901	64979400	1500	1	2.21E-06	-1.8310873	8	0.533	AABR07026125.1	
DHR17:9593901	17	9593901	9594100	200	1	2.58E-05	-2.03422	0	0	Fam193b	
DHR17:89385901	17	89385901	89397000	11100	8	8.81E-06	0.9173086	85	0.766		
DHR17:89407501	17	89407501	89411400	3900	2	2.38E-06	0.8960897	24	0.615		
DHR17:89412901	17	89412901	89419800	6900	2	3.42E-06	0.8262896	70	1.014		
DHR17:89427001	17	89427001	89429000	2000	1	9.46E-05	0.9245905	19	0.95		
DHR17:89430101	17	89430101	89442300	12200	14	1.26E-07	1.1382655	72	0.59		
DHR17:89443401	17	89443401	89446600	3200	2	3.89E-06	0.883254	20	0.625	AABR07028872.1	
DHR17:89449601	17	89449601	89464100	14500	6	1.57E-06	1.0509194	97	0.669	AABR07028872.1	
DHR19:26948701	19	26948701	26949900	1200	1	4.14E-05	-1.9110613	3	0.25	AABR07043271.1	
DHR20:5403801	20	5403801	5403900	100	1	1.62E-05	2.1069568	1	1	RT1-A1	Immune
DHRMT:1	MT	1	16300	16300	1	8.68E-05	1.938918	303	1.859	AY172581.13;AY172581.9;AY172581.3;AY172581.24;AY172581.14;Mt-nd1;AY172581.4;AY172581.21;AY172581.15;Mt-nd2;AY172581.6;AY172581.22;AY172581.18;AY172581.10;AY172581.7;Mt-co1;AY172581.19;AY172581.12;Mt-co2;AY172581.1;Mt-atp8;Mt-atp6;Mt-co3;AY172581.5;Mt-nd3;AY172581.16;Mt-nd4l;Mt-nd4;AY172581.23;AY172581.17;AY172581.11;Mt-nd5;Mt-nd6;AY172581.20;Mt-cyb;AY172581.8;AY172581.2	
DHRX:166201	X	166201	169800	3600	1	6.97E-05	-1.5857853	32	0.889		
DHRX:53575901	X	53575901	53576600	700	1	5.66E-05	1.931926	5	0.714		

(D) DDT H3k27me Caput DHR List

DHR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DHR1:70907101	1	70907101	70907200	100	1	1.53E-05	-2.489312	0	0		
DHR1:71755701	1	71755701	71755800	100	1	7.11E-05	1.7943801	0	0		
DHR1:180311301	1	180311301	180311400	100	1	4.17E-05	1.8668297	0	0		
DHR1:181455001	1	181455001	181455100	100	1	6.67E-05	-1.9727694	0	0		
DHR1:182734301	1	182734301	182734500	200	1	2.53E-05	-1.8334011	0	0		
DHR2:10029601	2	10029601	10030800	1200	1	3.65E-05	-1.781232	12	1		
DHR2:114604901	2	114604901	114605300	400	1	2.51E-05	-1.9283691	1	0.25		
DHR2:156562501	2	156562501	156563200	700	1	7.83E-05	1.1430675	4	0.571		
DHR2:224898001	2	224898001	224898500	500	1	6.07E-05	1.3111959	0	0	Alg14;RF00100	Metabolism
DHR3:42647801	3	42647801	42648000	200	1	9.99E-05	-1.9414692	6	3		
DHR3:44869001	3	44869001	44872000	3000	1	2.58E-05	2.1318664	34	1.133		
DHR3:89442901	3	89442901	89444400	1500	1	5.80E-05	1.7299868	14	0.933		
DHR3:96403801	3	96403801	96404100	300	1	2.63E-05	-2.0102333	2	0.667		
DHR4:78546201	4	78546201	78546500	300	1	3.40E-05	-1.5692853	9	3		
DHR4:127911001	4	127911001	127911400	400	1	4.28E-05	1.9155166	1	0.25		
DHR5:9556601	5	9556601	9557700	1100	1	7.77E-07	-3.0284625	6	0.545		
DHR6:22240501	6	22240501	22240600	100	1	7.53E-06	-3.0283673	1	1	Spast	Cytoskeleton
DHR6:42044401	6	42044401	42044500	100	1	1.57E-05	2.6984274	1	1		
DHR6:57976301	6	57976301	57976600	300	1	6.26E-05	1.7031723	4	1.333	Dgkb	Signaling
DHR6:125468301	6	125468301	125468600	300	1	3.90E-05	-2.3083576	1	0.333	Tc2n	Unknown
DHR7:21792801	7	21792801	21794600	1800	1	3.92E-06	-2.0778377	4	0.222		
DHR7:53450201	7	53450201	53451800	1600	1	6.69E-05	1.4569245	8	0.5		
DHR7:111810801	7	111810801	111811000	200	1	4.25E-05	-2.0282375	1	0.5		
DHR8:55594001	8	55594001	55594200	200	1	6.08E-05	2.0660192	1	0.5	Pou2af1	
DHR9:8908501	9	8908501	8909600	1100	1	7.00E-05	1.2507139	4	0.364	AABR07066440.1	
DHR9:14851001	9	14851001	14853200	2200	1	2.29E-05	-1.9566516	27	1.227	LOC680920	
DHR9:19111001	9	19111001	19111100	100	1	7.11E-05	1.867011	0	0		
DHR9:33514801	9	33514801	33515000	200	1	4.25E-05	1.7155183	1	0.5		
DHR9:102824301	9	102824301	102824800	500	1	5.39E-06	2.0146964	5	1		
DHR11:16967801	11	16967801	16968000	200	1	9.99E-05	-1.8396467	3	1.5		
DHR11:90459201	11	90459201	90459500	300	1	5.74E-05	1.7160926	0	0		
DHR12:20390101	12	20390101	20390400	300	1	2.53E-05	1.703242	1	0.333		
DHR12:34648701	12	34648701	34650100	1400	1	7.40E-05	-1.5622263	12	0.857	AABR07036101.1	
DHR12:35322101	12	35322101	35322200	100	1	3.90E-05	-2.6093027	0	0	AABR07036167.1	
DHR13:2497401	13	2497401	2498400	1000	1	2.18E-05	-2.5684331	7	0.7		
DHR13:10343201	13	10343201	10343300	100	1	4.12E-05	-1.8092185	0	0		
DHR13:27598401	13	27598401	27599000	600	1	3.51E-06	-2.6844605	3	0.5		
DHR13:44280401	13	44280401	44280500	100	1	2.26E-05	-2.5706118	0	0	Tmem163	Unknown
DHR13:89445601	13	89445601	89446900	1300	1	6.23E-05	0.734331	32	2.462		
DHR13:90145301	13	90145301	90149300	4000	2	7.03E-07	-2.5727432	47	1.175	Cd48	Immune
DHR14:49671601	14	49671601	49671800	200	1	5.30E-05	-1.6759196	3	1.5		
DHR14:57716401	14	57716401	57716700	300	1	8.08E-06	2.1545343	4	1.333		
DHR14:62887601	14	62887601	62890500	2900	1	6.11E-05	1.7076266	33	1.138		
DHR14:88206001	14	88206001	88206400	400	1	9.65E-05	-1.5894688	2	0.5	AABR07015966.1	
DHR15:65051101	15	65051101	65052000	900	1	2.43E-05	-1.8995916	3	0.333		
DHR16:370101	16	370101	370400	300	1	9.99E-05	-1.7458613	2	0.667		
DHR16:18258501	16	18258501	18258800	300	1	4.28E-05	1.9622014	2	0.667		
DHR16:48633301	16	48633301	48633500	200	1	8.10E-05	1.734609	1	0.5	Irf2	Transcription
DHR17:9924401	17	9924401	9924500	100	1	2.74E-06	2.2135466	0	0	Nsd1	Transcription
DHR17:48421401	17	48421401	48422000	600	1	9.55E-05	-1.8054309	1	0.167	Amph	Receptor
DHR17:76671301	17	76671301	76671400	100	1	7.46E-07	2.008938	0	0	Camk1d	Signaling
DHR17:89385101	17	89385101	89396900	11800	1	6.49E-05	0.6135299	88	0.746		
DHR17:89467401	17	89467401	89468800	1400	1	1.43E-05	0.750213	4	0.286		
DHR18:35242001	18	35242001	35242500	500	1	1.96E-05	1.665367	4	0.8	Spink6	
DHR18:80520201	18	80520201	80520400	200	2	2.79E-07	-2.3767607	2	1		
DHR19:29249401	19	29249401	29250500	1100	1	4.25E-05	-2.0281187	7	0.636	AABR07043564.1	

DHR20:2601501	20	2601501	2602400	900	1	8.77E-06	-2.2065193	5	0.556	AC120486.10;RF00100	
DHR20:40846901	20	40846901	40847000	100	1	9.00E-05	1.4905153	0	0		
DHR20:45928401	20	45928401	45928500	100	1	4.32E-06	-2.4890489	0	0	Fig4	Signaling
DHRX:80441601	X	80441601	80443500	1900	1	1.41E-05	-2.6152897	7	0.368		
DHRX:80454401	X	80454401	80457200	2800	1	2.43E-05	1.6919803	11	0.393		
DHRY:2908201	Y	2908201	2909200	1000	1	7.89E-05	1.4284113	9	0.9		

(E) DDT H3k27me Cauda DHR List

DHR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DHR2:160690101+	2	160690101	160695700	5600	2	3.30E-05	0.7548302	88	1.571		
DHR2:160933601	2	160933601	160934000	400	1	3.61E-06	0.8047662	4	1		
DHR3:96693901	3	96693901	96694100	200	1	1.52E-05	2.3496442	0	0		
DHR3:133562601	3	133562601	133568300	5700	1	6.55E-06	0.8130422	82	1.439		
DHR4:33182001	4	33182001	33182700	700	1	5.11E-05	1.4469118	6	0.857	AABR07059723.1	
DHR4:146538701	4	146538701	146543900	5200	1	1.92E-05	-0.4286636	158	3.038		
DHR4:146545401	4	146545401	146548900	3500	1	4.65E-07	-0.5473785	104	2.971		
DHR5:6372801	5	6372801	6374500	1700	5	2.42E-07	-1.9076657	30	1.765	AABR07046778.1	
DHR5:24717401	5	24717401	24719900	2500	1	3.97E-05	1.1173524	15	0.6	AABR07047221.1	
DHR5:146403201	5	146403201	146405700	2500	6	9.24E-06	-1.7340314	7	0.28	Csmd2	Unknown
DHR6:18759901	6	18759901	18760100	200	1	1.88E-05	-2.0757935	1	0.5		
DHR7:20152001	7	20152001	20154000	2000	1	4.22E-05	-1.9283694	21	1.05		
DHR7:21657301	7	21657301	21657400	100	1	6.61E-05	1.9913203	1	1		
DHR7:27563201	7	27563201	27563600	400	1	1.03E-05	-0.5131914	2	0.5		
DHR7:114548401	7	114548401	114548600	200	1	2.57E-06	-1.5908159	0	0	Ptk2	Signaling
DHR10:75365301	10	75365301	75365400	100	1	3.59E-05	-2.3478315	0	0	Vezf1	Transcription
DHR14:46530801	14	46530801	46533400	2600	1	1.25E-05	0.6999735	59	2.269	AABR07015055.1;AABR07015057.1;AABR07015055.2;AABR07015056.1	
DHR14:46624601	14	46624601	46624800	200	1	6.50E-05	1.147842	6	3	RF01518	
DHR14:46655901	14	46655901	46658400	2500	1	3.58E-05	0.6501733	79	3.16	Rn5-8s;AABR07015078.1;AABR07015078.2;AABR07015079.1;AABR07015080.2;AABR07015081.2;AABR07015080.1;AABR07015081.1	
DHR17:89386101	17	89386101	89396500	10400	5	1.14E-05	1.0440628	74	0.712		
DHR17:89430201	17	89430201	89442300	12100	4	1.76E-07	0.870951	72	0.595		
DHR17:89443401	17	89443401	89446300	2900	3	8.09E-06	1.520874	19	0.655	AABR07028872.1	
DHR17:89449601	17	89449601	89464100	14500	4	2.21E-05	1.4582651	97	0.669	AABR07028872.1	
DHR18:80520201	18	80520201	80520300	100	1	2.52E-08	-2.9402348	1	1		
DHR18:81185001	18	81185001	81185300	300	1	6.22E-06	1.0538245	3	1	Zfp407	Transcription
DHR20:19484001	20	19484001	19485200	1200	3	8.84E-06	-2.5624851	14	1.167	Fam13c	
DHRMT:1	MT	1	16300	16300	60	4.54E-10	-2.1832911	303	1.859	AY172581.13;AY172581.9;AY172581.3;AY172581.24;AY172581.14;Mt-nd1;AY172581.4;AY172581.21;AY172581.15;Mt-nd2;AY172581.6;AY172581.22;AY172581.18;AY172581.10;AY172581.7;Mt-co1;AY172581.19;AY172581.12;Mt-co2;AY172581.1;Mt-atp8;Mt-atp6;Mt-co3;AY172581.5;Mt-nd3;AY172581.16;Mt-nd4l;Mt-nd4;AY172581.23;AY172581.17;AY172581.11;Mt-nd5;Mt-nd6;AY172581.20;Mt-cyb;AY172581.8;AY172581.2	