

Supplemental Table S3

(A) Vinclozolin Round Spermatid DHR List

DHR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DHR1:24966001	1	24966001	24966600	600	1	5.46E-05	1.8781248	3	0.5		
DHR1:28532501	1	28532501	28532600	100	1	9.95E-05	2.1648947	1	1	Tpd52l1	
DHR1:74369601	1	74369601	74369800	200	1	9.46E-05	-1.7855978	0	0		
DHR1:94645801	1	94645801	94645900	100	1	5.44E-05	-1.7198153	0	0		
DHR2:72810201	2	72810201	72811200	1000	1	3.38E-05	-2.1073166	13	1.3		
DHR2:114565501	2	114565501	114565700	200	2	4.21E-10	-2.293264	3	1.5		
DHR3:26885301	3	26885301	26885600	300	1	4.32E-05	-1.0551756	2	0.667		
DHR3:52058501	3	52058501	52060200	1700	1	4.59E-05	-1.3808385	8	0.471	Csrnp3	Unknown
DHR3:149856501	3	149856501	149856700	200	2	1.00E-07	-1.8463462	8	4	Cdk5rap1	Signaling
DHR4:28391501	4	28391501	28391700	200	1	1.17E-07	3.0574432	0	0		
DHR4:33173201	4	33173201	33173500	300	1	1.79E-05	1.759499	2	0.667	AABR07059723.1	
DHR4:44708001	4	44708001	44708300	300	1	1.06E-05	-1.2455348	3	1		
DHR5:38490001	5	38490001	38490200	200	1	5.32E-05	-1.7827243	3	1.5		
DHR5:71284201	5	71284201	71284600	400	1	9.07E-05	1.3591066	2	0.5		
DHR5:74897201	5	74897201	74897300	100	1	1.11E-05	-2.5516221	5	5	AC134204.1;Akap2;RF00017	Signaling
DHR6:10806501	6	10806501	10808000	1500	1	7.82E-05	-2.2457624	61	4.067		
DHR6:31066001	6	31066001	31066800	800	1	8.19E-06	-1.1437041	7	0.875		
DHR6:47096201	6	47096201	47097800	1600	1	1.57E-05	-2.0684561	15	0.938		
DHR6:81595201	6	81595201	81595400	200	1	6.99E-05	-1.9843014	2	1		
DHR6:128249301	6	128249301	128249400	100	1	2.74E-05	-2.1535597	0	0		
DHR7:21663501	7	21663501	21665300	1800	1	2.92E-05	1.5037687	10	0.556		
DHR7:63898201	7	63898201	63898400	200	1	9.35E-05	1.3508108	0	0		
DHR8:39893001	8	39893001	39893300	300	3	4.22E-09	1.6927169	0	0	LOC100911068;Robo3	Extracellular Matrix; Receptor
DHR8:41832301	8	41832301	41832400	100	1	2.58E-05	-2.1466546	0	0		
DHR9:8459801	9	8459801	8460100	300	1	1.13E-05	1.8912368	3	1		
DHR9:21886501	9	21886501	21887300	800	1	4.20E-05	1.6797412	7	0.875		
DHR10:111140601	10	111140601	111140700	100	1	8.92E-05	2.1496144	1	1		
DHR14:46619501	14	46619501	46624300	4800	2	8.49E-06	-0.972726	69	1.438	RF01518	
DHR14:91544901	14	91544901	91546200	1300	1	7.69E-05	1.9671448	40	3.077	Zbp	Development
DHR15:95218401	15	95218401	95218500	100	1	3.60E-06	-2.4692036	0	0		
DHR16:58844901	16	58844901	58845000	100	1	6.05E-07	-2.3134362	1	1	AABR07026012.1;AABR07026004.1	
DHR16:64917001	16	64917001	64918600	1600	1	1.06E-07	2.1345328	5	0.312	AABR07026120.1	
DHR16:64920101	16	64920101	64924300	4200	1	5.04E-06	1.7737398	21	0.5	AABR07026120.1	
DHR16:64930301	16	64930301	64935800	5500	1	1.94E-05	1.2329167	30	0.545	AABR07026120.1	
DHR16:64975301	16	64975301	64979500	4200	1	3.80E-06	1.6820474	23	0.548	AABR07026125.1	
DHR17:76671301	17	76671301	76671400	100	1	2.92E-05	1.820256	0	0	Camk1d	Signaling
DHR18:37041501	18	37041501	37041700	200	2	5.16E-07	-1.4189023	0	0	Ppp2r2b	Signaling
DHR19:15044401	19	15044401	15049000	4600	3	3.90E-07	-1.8082477	143	3.109	Ces1d	Metabolism
DHR19:26959901	19	26959901	26960000	100	1	2.87E-05	-2.1889803	2	2		
DHR19:27225201	19	27225201	27225300	100	1	8.49E-05	1.6930147	0	0		
DHR19:43906101	19	43906101	43906300	200	1	2.58E-05	-2.1467091	0	0	Ctrb1;AC114198.1	Protease
DHR20:133101	20	133101	134700	1600	1	6.16E-05	-1.4414504	17	1.062		
DHR20:2587201	20	2587201	2588100	900	1	6.01E-05	-1.6472221	5	0.556	AC120486.10	
DHR20:5405101	20	5405101	5406600	1500	2	2.79E-05	1.8770364	9	0.6	RT1-A1	Immune
DHRX:119756301	X	119756301	119757200	900	1	3.49E-05	-2.1145715	6	0.667		
DHRX:150485701	X	150485701	150487200	1500	2	6.89E-07	1.7234528	8	0.533		
DHRX:150523801	X	150523801	150524500	700	1	5.40E-05	1.7312293	4	0.571		
DHRX:150617001	X	150617001	150619100	2100	1	6.11E-05	1.7290997	11	0.524		
DHRX:155840301	X	155840301	155840500	200	1	8.46E-05	-1.3726615	3	1.5	Dkc1	Transcription

(B) Vinclozolin Caput DHR List

DHR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DHR1:38064501	1	38064501	38065300	800	1	4.68E-05	1.148222	5	0.625		
DHR1:76468401	1	76468401	76470000	1600	1	3.90E-06	2.8705138	6	0.375	Sult2a2	Metabolism
DHR1:77222401	1	77222401	77225900	3500	1	3.90E-05	2.1884884	11	0.314		
DHR1:97906101	1	97906101	97911500	5400	1	9.38E-06	-1.7816414	14	0.259		
DHR1:148626701	1	148626701	148627400	700	1	6.28E-05	0.9280023	9	1.286		
DHR1:148650501	1	148650501	148653300	2800	1	2.76E-05	1.2628598	72	2.571		
DHR1:169135701	1	169135701	169135900	200	1	4.02E-05	-2.1088751	1	0.5	Olr136;LOC499219	
DHR1:181483901	1	181483901	181484000	100	1	4.48E-06	2.1025637	0	0		
DHR2:2756201	2	2756201	2756400	200	1	4.95E-05	-2.0056697	3	1.5	Spata9	Development
DHR2:35057201	2	35057201	35057500	300	1	7.48E-05	-1.6160433	5	1.667		
DHR2:49370601	2	49370601	49371000	400	1	2.03E-05	-0.6963793	11	2.75		
DHR2:54463001	2	54463001	54463400	400	1	1.55E-05	2.0992573	7	1.75	C6	Immune
DHR2:78637301	2	78637301	78637400	100	1	9.15E-05	-1.869822	1	1	AC115509.1	
DHR2:88614201	2	88614201	88614500	300	1	5.09E-05	-1.7982404	3	1	Slc7a12	
DHR2:112642801	2	112642801	112644000	1200	1	4.52E-05	-2.054543	9	0.75	Spata16	
DHR2:156155101	2	156155101	156157500	2400	1	8.30E-05	1.7209265	13	0.542		
DHR2:156933801	2	156933801	156935800	2000	1	7.72E-05	-1.4483953	9	0.45		
DHR2:179209201	2	179209201	179209500	300	1	3.65E-05	1.8855022	1	0.333		
DHR2:197496601	2	197496601	197497600	1000	1	5.01E-05	1.9049775	12	1.2		
DHR2:197509101	2	197509101	197509200	100	1	8.19E-05	2.1038046	0	0		
DHR3:41423301	3	41423301	41424500	1200	1	1.50E-05	-1.9080824	8	0.667		
DHR3:60071001	3	60071001	60073200	2200	1	3.12E-05	-2.062925	21	0.955	Gpr155	Receptor
DHR3:70058201	3	70058201	70058600	400	1	4.20E-05	-1.6614812	20	5		
DHR3:83670001	3	83670001	83672900	2900	1	9.98E-05	-1.6788745	25	0.862		
DHR3:96274901	3	96274901	96275200	300	1	6.36E-05	2.0739084	11	3.667		
DHR3:96665701	3	96665701	96666200	500	1	3.78E-06	2.5329201	4	0.8		
DHR3:133804501	3	133804501	133806400	1900	1	8.55E-05	1.8712076	7	0.368		
DHR3:149735001	3	149735001	149735500	500	2	1.01E-05	1.5510415	9	1.8	Cdk5rap1;AABR07054355.1	Signaling
DHR3:149856501	3	149856501	149856700	200	2	3.59E-05	-1.371256	8	4	Cdk5rap1	Signaling
DHR3:167217901	3	167217901	167218000	100	1	6.51E-05	1.9104726	0	0	AABR07054705.2;AABR07054705.1	
DHR4:33167901	4	33167901	33168400	500	1	6.64E-05	2.3015806	2	0.4		
DHR4:44149601	4	44149601	44150600	1000	1	9.40E-06	2.2499572	14	1.4		
DHR4:53722101	4	53722101	53722400	300	1	3.62E-06	2.6060229	12	4		
DHR4:68984201	4	68984201	68984400	200	1	3.18E-06	-2.2299728	2	1	Mgam	Metabolism
DHR4:135083301	4	135083301	135083500	200	1	3.38E-05	-1.0192474	0	0		
DHR5:121186501	5	121186501	121187200	700	1	2.22E-05	1.5980738	3	0.429		
DHR6:30408201	6	30408201	30410700	2500	1	3.40E-05	1.6694043	30	1.2		
DHR6:30646201	6	30646201	30647800	1600	1	3.50E-05	0.8819361	19	1.188	AABR07063424.1;AABR07063425.3;AABR07063425.2;AABR07063425.1	
DHR6:42044401	6	42044401	42044500	100	1	4.76E-10	3.5164494	1	1		
DHR6:79761301	6	79761301	79762100	800	1	9.98E-05	-1.9116635	10	1.25		
DHR6:90605101	6	90605101	90605200	100	1	4.12E-05	1.9961115	0	0		
DHR6:94113401	6	94113401	94113500	100	1	6.66E-05	-1.8704583	0	0		
DHR6:125678301	6	125678301	125678400	100	1	2.43E-05	2.0007344	1	1	Fbln5	Signaling
DHR6:138891101	6	138891101	138892400	1300	1	6.21E-05	2.444957	12	0.923	AABR07065656.3	
DHR7:22032101	7	22032101	22032300	200	1	8.95E-05	1.5067294	1	0.5		
DHR7:22595801	7	22595801	22597100	1300	1	6.72E-05	2.2155469	11	0.846		
DHR7:124908501	7	124908501	124909200	700	1	9.53E-07	1.5384919	6	0.857	Efcab6	Signaling
DHR8:39893001	8	39893001	39893300	300	3	2.54E-19	1.800967	0	0	LOC100911068;Robo3	Extracellular Matrix;Receptor
DHR9:1403401	9	1403401	1404800	1400	1	1.08E-05	1.1632516	11	0.786	Tbc1d5	Signaling
DHR9:21833501	9	21833501	21835100	1600	1	1.45E-05	2.5279101	8	0.5		
DHR9:84785101	9	84785101	84785300	200	1	3.91E-05	-1.8698639	4	2		
DHR9:90509601	9	90509601	90510400	800	1	9.41E-05	-1.7499322	6	0.75		
DHR9:95714401	9	95714401	95715800	1400	2	3.91E-05	-1.9613943	13	0.929		
DHR10:854401	10	854401	854500	100	1	2.66E-08	3.8621674	0	0	Myh11;Nde1	Cytoskeleton;Development
DHR10:35027801	10	35027801	35028200	400	1	7.75E-05	-1.8723489	0	0	Trappc2b	

DHR11:4627401	11	4627401	4627500	100	1	6.66E-05	-2.0025146	3	3		
DHR11:13643801	11	13643801	13643900	100	1	4.95E-06	-2.4503591	0	0		
DHR11:21446501	11	21446501	21448600	2100	1	1.70E-05	-2.1071687	20	0.952		
DHR11:26219101	11	26219101	26219300	200	1	2.58E-05	-1.8705042	1	0.5		
DHR12:79901	12	79901	80800	900	1	8.46E-05	-1.9229714	11	1.222		
DHR12:49142201	12	49142201	49142300	100	1	9.04E-05	-1.9171772	0	0		
DHR13:5845201	13	5845201	5846400	1200	1	7.18E-05	2.112572	7	0.583		
DHR13:33489301	13	33489301	33490200	900	3	2.15E-05	-0.6357947	23	2.556		
DHR13:37729301	13	37729301	37729900	600	1	1.33E-05	-1.9088349	11	1.833		
DHR14:33201101	14	33201101	33203000	1900	1	7.38E-05	1.7470921	20	1.053		
DHR14:48287101	14	48287101	48287300	200	1	7.07E-05	-1.8709591	0	0		
DHR14:74640201	14	74640201	74642200	2000	1	4.25E-05	-1.9600423	17	0.85		
DHR15:296301	15	296301	297700	1400	1	2.68E-05	-1.8758501	11	0.786		
DHR15:5475001	15	5475001	5476400	1400	2	1.25E-05	1.5509238	10	0.714	Spetex-2F;AABR07016950.1	Unknown
DHR15:32025701	15	32025701	32025800	100	1	2.17E-05	2.6220678	0	0	AABR07017868.3	
DHR15:69398901	15	69398901	69399400	500	1	5.30E-05	-1.7658911	9	1.8		
DHR15:95219201	15	95219201	95220800	1600	1	9.98E-05	-1.7904453	13	0.812		
DHR15:97985001	15	97985001	97986000	1000	1	2.15E-07	-2.2704182	9	0.9		
DHR16:21832101	16	21832101	21832500	400	1	3.67E-05	-0.7185273	2	0.5		
DHR16:64976501	16	64976501	64982400	5900	1	9.20E-05	1.4320262	30	0.508	AABR07026125.1	
DHR17:31794201	17	31794201	31796700	2500	1	1.78E-05	-2.2803916	23	0.92		
DHR17:38157801	17	38157801	38158000	200	1	8.12E-05	-1.5139536	2	1		
DHR17:42711701	17	42711701	42711900	200	1	9.98E-05	-1.7905618	4	2	Prl6a1	
DHR17:74639101	17	74639101	74640700	1600	1	4.31E-05	-1.5965871	14	0.875		
DHR18:30636701	18	30636701	30636900	200	1	5.66E-05	-1.6699068	4	2		
DHR18:37497801	18	37497801	37497900	100	1	7.18E-05	1.868934	1	1		
DHR18:80520201	18	80520201	80520400	200	2	3.20E-07	-1.8348024	2	1		
DHR19:26308301	19	26308301	26309700	1400	1	3.00E-05	1.6233477	15	1.071		
DHR19:26433701	19	26433701	26436900	3200	1	3.97E-05	1.4528062	17	0.531		
DHR19:28519301	19	28519301	28520900	1600	1	5.60E-05	1.573558	10	0.625		
DHR19:28665301	19	28665301	28666600	1300	1	7.60E-05	1.4063702	5	0.385	AABR07043453.1	
DHRX:18091501	X	18091501	18094200	2700	1	3.88E-05	2.2125548	93	3.444	AABR07037302.1	
DHRX:45238901	X	45238901	45239500	600	1	4.95E-06	2.566187	4	0.667	Pbsn	
DHRX:66708601	X	66708601	66708900	300	1	9.07E-05	2.0293419	6	2		
DHRX:80454401	X	80454401	80457200	2800	4	5.64E-06	2.2835326	11	0.393		
DHRX:90719401	X	90719401	90721000	1600	1	8.79E-05	1.9150196	20	1.25		
DHRX:117342101	X	117342101	117343200	1100	1	8.22E-05	1.8322742	7	0.636		
DHRX:135622301	X	135622301	135622400	100	1	3.45E-05	-2.005393	0	0		

(C) Vinclozolin Cauda DHR List

DHR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DHR1:181225901	1	181225901	181227700	1800	1	1.92E-05	1.6066553	46	2.556		
DHR1:195846501	1	195846501	195846700	200	1	6.24E-05	1.6128841	0	0		
DHR2:49370501	2	49370501	49371100	600	1	3.82E-05	-1.0145022	16	2.667		
DHR2:150716401	2	150716401	150717000	600	1	5.13E-05	2.3434229	2	0.333		
DHR3:83513601	3	83513601	83513800	200	1	1.47E-05	-1.8243194	0	0		
DHR3:149856501	3	149856501	149856700	200	2	1.85E-10	-2.5994752	8	4	Cdk5rap1	Signaling
DHR3:170151901	3	170151901	170152100	200	1	2.17E-05	-1.9376425	0	0		
DHR4:54839901	4	54839901	54840100	200	1	1.69E-05	2.6104605	5	2.5	Grm8	Receptor
DHR7:73275901	7	73275901	73276000	100	1	6.33E-06	2.5805315	0	0	Rida;Pop1	Transcription
DHR7:114548401	7	114548401	114548700	300	1	6.11E-05	-1.5654741	1	0.333	Ptk2	Signaling
DHR8:39893001	8	39893001	39893300	300	2	4.89E-06	1.8339518	0	0	LOC100911068;Robo3	Extracellular Matrix;Receptor
DHR9:4804201	9	4804201	4804400	200	1	8.53E-05	1.5239031	1	0.5	LOC100910526	Metabolism
DHR9:12298701	9	12298701	12299400	700	1	6.56E-05	-1.7066269	5	0.714		
DHR15:26183701	15	26183701	26183800	100	1	1.96E-05	3.025967	2	2	Slc35f4	Metabolism
DHR16:64917601	16	64917601	64918900	1300	1	1.56E-05	2.4511798	3	0.231	AABR07026120.1	
DHR17:9593901	17	9593901	9594100	200	1	2.06E-06	-2.1794612	0	0	Fam193b	
DHR19:15046301	19	15046301	15048800	2500	1	7.52E-05	-1.7495062	77	3.08	Ces1d	Metabolism
DHR1:181225901	1	181225901	181227700	1800	1	1.92E-05	1.6066553	46	2.556		
DHR1:195846501	1	195846501	195846700	200	1	6.24E-05	1.6128841	0	0		
DHR2:49370501	2	49370501	49371100	600	1	3.82E-05	-1.0145022	16	2.667		
DHR2:150716401	2	150716401	150717000	600	1	5.13E-05	2.3434229	2	0.333		
DHR3:83513601	3	83513601	83513800	200	1	1.47E-05	-1.8243194	0	0		
DHR3:149856501	3	149856501	149856700	200	2	1.85E-10	-2.5994752	8	4	Cdk5rap1	Signaling
DHR3:170151901	3	170151901	170152100	200	1	2.17E-05	-1.9376425	0	0		
DHR4:54839901	4	54839901	54840100	200	1	1.69E-05	2.6104605	5	2.5	Grm8	Receptor
DHR7:73275901	7	73275901	73276000	100	1	6.33E-06	2.5805315	0	0	Rida;Pop1	Transcription
DHR7:114548401	7	114548401	114548700	300	1	6.11E-05	-1.5654741	1	0.333	Ptk2	Signaling
DHR8:39893001	8	39893001	39893300	300	2	4.89E-06	1.8339518	0	0	LOC100911068;Robo3	Extracellular Matrix;Receptor
DHR9:4804201	9	4804201	4804400	200	1	8.53E-05	1.5239031	1	0.5	LOC100910526	Metabolism
DHR9:12298701	9	12298701	12299400	700	1	6.56E-05	-1.7066269	5	0.714		
DHR15:26183701	15	26183701	26183800	100	1	1.96E-05	3.025967	2	2	Slc35f4	Metabolism
DHR16:64917601	16	64917601	64918900	1300	1	1.56E-05	2.4511798	3	0.231	AABR07026120.1	
DHR17:9593901	17	9593901	9594100	200	1	2.06E-06	-2.1794612	0	0	Fam193b	
DHR19:15046301	19	15046301	15048800	2500	1	7.52E-05	-1.7495062	77	3.08	Ces1d	Metabolism

(D) Vinclozolin H3K27me Caput DHR List

DHR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DHR1:70640701	1	70640701	70640900	200	1	2.52E-05	1.8598038	2	1		
DHR1:75628401	1	75628401	75628600	200	1	1.56E-05	-2.5193779	4	2	Pla2g4c;AABR07002493.1	Metabolism
DHR1:76443901	1	76443901	76445000	1100	2	3.06E-05	1.7360418	5	0.455	Sult2a2	Metabolism
DHR1:76480801	1	76480801	76481500	700	1	4.24E-05	1.8959719	4	0.571	Sult2a2	Metabolism
DHR1:97908301	1	97908301	97911700	3400	1	4.31E-05	-1.5911984	6	0.176		
DHR1:131705201	1	131705201	131705300	100	1	1.44E-05	-2.3199386	0	0		
DHR1:134971401	1	134971401	134971600	200	1	1.66E-06	-2.4881538	4	2		
DHR1:160585401	1	160585401	160585600	200	1	4.40E-05	-2.2974865	2	1		
DHR1:167880701	1	167880701	167880800	100	1	4.30E-06	-2.6218214	1	1	Olr63;Olr62;Olr61	Receptor
DHR1:180221701	1	180221701	180222800	1100	1	6.64E-05	-1.9938922	9	0.818		
DHR1:223728801	1	223728801	223729700	900	1	9.59E-06	-1.9019606	14	1.556		
DHR1:225258501	1	225258501	225258800	300	1	5.19E-07	-1.8567607	0	0		
DHR1:238948401	1	238948401	238948700	300	1	6.94E-05	1.8475241	1	0.333		
DHR1:258851201	1	258851201	258851600	400	1	1.07E-05	-2.6876411	9	2.25	Cyp2c13	
DHR1:260287001	1	260287001	260287200	200	1	5.97E-05	-2.3772843	0	0	Dntt	Transcription
DHR2:12367201	2	12367201	12367600	400	1	1.33E-05	1.7841279	6	1.5		
DHR2:12618901	2	12618901	12619300	400	1	9.95E-05	-1.8406365	3	0.75		
DHR2:49363601	2	49363601	49365800	2200	1	4.76E-05	0.6192282	65	2.955		
DHR2:59409601	2	59409601	59409900	300	1	2.42E-05	1.8048096	1	0.333		
DHR2:108675301	2	108675301	108676100	800	1	6.55E-05	1.8958809	5	0.625		
DHR2:158807001	2	158807001	158807100	100	1	1.30E-05	-2.5486889	0	0		
DHR2:161780901	2	161780901	161783700	2800	1	5.77E-05	-1.9621769	30	1.071		
DHR2:196762701	2	196762701	196762900	200	1	1.01E-05	-2.7712662	2	1		
DHR3:12674201	3	12674201	12674500	300	1	1.74E-06	-1.8728781	1	0.333	Lmx1b	
DHR3:37775101	3	37775101	37776100	1000	1	8.36E-06	1.8202892	13	1.3	Neb	Cytoskeleton
DHR3:116843301	3	116843301	116843500	200	1	4.16E-06	-2.2138802	0	0		
DHR3:131624601	3	131624601	131624900	300	1	5.37E-05	1.8863134	3	1	AABR07053870.1	
DHR3:149735001	3	149735001	149735500	500	2	2.98E-07	1.9182096	9	1.8	Cdk5rap1;AABR07054355.1	Signaling
DHR3:149794201	3	149794201	149795200	1000	1	9.07E-06	-2.7577954	9	0.9	Cdk5rap1;AABR07054358.1; LOC690507	Signaling
DHR4:26607801	4	26607801	26608300	500	1	2.23E-05	-2.0307522	5	1	RF00026	
DHR4:28386901	4	28386901	28387400	500	1	7.43E-05	1.6284818	4	0.8		
DHR4:28391701	4	28391701	28392400	700	1	8.59E-06	2.0381995	7	1		
DHR4:32793901	4	32793901	32794800	900	1	7.43E-05	-1.6292826	3	0.333		
DHR4:44708001	4	44708001	44708300	300	2	2.83E-12	-1.7426474	3	1		
DHR4:93679701	4	93679701	93680400	700	1	4.78E-05	1.6275584	6	0.857		
DHR4:100449901	4	100449901	100450900	1000	1	8.05E-05	-1.8578187	38	3.8	Elmod3	Signaling
DHR4:125210301	4	125210301	125212700	2400	1	7.59E-05	1.3512611	24	1	AABR07061448.2	
DHR4:135083301	4	135083301	135083500	200	1	8.88E-05	-1.2257082	0	0		
DHR4:178495701	4	178495701	178495800	100	1	3.64E-05	-1.9911243	1	1		
DHR5:27854301	5	27854301	27854400	100	1	2.56E-05	1.9682808	4	4		
DHR5:28043301	5	28043301	28044800	1500	1	1.91E-06	2.2829492	15	1	Slc26a7	Transport
DHR5:78023201	5	78023201	78023300	100	1	1.40E-06	-3.0736551	0	0		
DHR5:134445601	5	134445601	134448000	2400	1	6.64E-05	-1.9937499	24	1	AABR07049728.1	
DHR6:30537701	6	30537701	30538000	300	1	1.33E-05	-1.700973	0	0		
DHR6:42044401	6	42044401	42044500	100	1	1.21E-05	2.4511627	1	1		
DHR6:78309601	6	78309601	78309900	300	1	6.24E-05	-2.0880005	4	1.333	Mipol1	
DHR6:87036801	6	87036801	87038900	2100	1	7.09E-05	-2.2838552	16	0.762		
DHR7:16532901	7	16532901	16533300	400	1	3.99E-05	-1.5269855	4	1		
DHR7:33896801	7	33896801	33898000	1200	1	4.00E-06	2.337549	9	0.75	AABR07056636.1	
DHR7:38339401	7	38339401	38339500	100	1	1.47E-05	-2.6568028	0	0		
DHR7:45685501	7	45685501	45687500	2000	1	2.52E-05	-1.8721533	18	0.9		
DHR7:67916001	7	67916001	67916500	500	1	4.31E-05	-1.8213576	6	1.2		
DHR7:73275901	7	73275901	73276000	100	1	6.97E-07	3.1685492	0	0	Rida;Pop1	Transcription
DHR8:3587801	8	3587801	3588000	200	1	8.80E-05	1.638857	2	1		
DHR8:10734401	8	10734401	10735800	1400	1	9.66E-05	1.5569696	4	0.286		
DHR8:37950701	8	37950701	37951400	700	1	5.17E-05	1.5269385	3	0.429		
DHR8:39893001	8	39893001	39893300	300	3	1.33E-19	2.080174	0	0	LOC100911068;Robo3	Extracellular Matrix;Receptor
DHR8:41655301	8	41655301	41655700	400	1	8.27E-05	-1.7079149	2	0.5	Rup2	

DHR8:72483501	8	72483501	72484600	1100	1	3.64E-05	1.7547114	6	0.545	Aph1b	Development
DHR9:20437301	9	20437301	20437600	300	1	4.65E-05	-1.1204111	0	0		
DHR9:105968401	9	105968401	105968600	200	1	2.56E-05	2.1483278	1	0.5		
DHR9:110161501	9	110161501	110161600	100	1	5.77E-05	-1.9622576	0	0	Efna5	Signaling
DHR10:53942501	10	53942501	53942700	200	1	1.63E-05	-1.5690821	0	0		
DHR11:198401	11	198401	198800	400	1	7.02E-05	-2.1697969	2	0.5		
DHR11:6396501	11	6396501	6397600	1100	1	5.37E-05	-2.9538565	20	1.818		
DHR11:38057601	11	38057601	38058500	900	1	7.24E-05	-1.8916971	9	1	Mx2;Tmprss2	Immune;Proteolysis
DHR12:35746301	12	35746301	35746800	500	1	3.54E-05	-2.039584	9	1.8		
DHR13:3384801	13	3384801	3385200	400	1	6.94E-05	-1.9274597	3	0.75		
DHR13:16033201	13	16033201	16034100	900	1	6.31E-05	1.4493363	8	0.889		
DHR13:33487801	13	33487801	33489800	2000	1	1.14E-05	-0.494969	53	2.65		
DHR13:101476501	13	101476501	101476700	200	1	1.28E-06	1.9241445	16	8	Disp1	
DHR14:22408401	14	22408401	22411600	3200	1	5.86E-05	1.6268693	15	0.469	Ugt2a3;Ugt2b37	Metabolism
DHR15:34888101	15	34888101	34888200	100	1	8.76E-05	1.62955	0	0	Mcpt2;AABR07017936.1	Proteolysis
DHR16:37022901	16	37022901	37023400	500	1	3.07E-05	-1.5786096	0	0		
DHR17:86241401	17	86241401	86241600	200	1	5.53E-05	-1.0016623	0	0	AABR07028785.1	
DHR17:89389201	17	89389201	89396900	7700	1	9.91E-05	0.4289181	62	0.805		
DHR18:8870301	18	8870301	8871400	1100	1	3.35E-05	-2.047159	6	0.545		
DHR18:11161801	18	11161801	11162000	200	1	1.07E-05	2.0333672	2	1		
DHR18:80520201	18	80520201	80520400	200	2	1.22E-10	-2.7783409	2	1		
DHR19:306701	19	306701	308000	1300	1	5.29E-05	0.6279511	8	0.615		
DHR19:15046701	19	15046701	15048400	1700	2	7.32E-05	-1.0542571	49	2.882	Ces1d	Metabolism
DHRX:17125301	X	17125301	17125400	100	1	7.09E-05	-2.0343452	0	0		
DHRX:18091601	X	18091601	18094100	2500	1	5.28E-05	1.708749	85	3.4	AABR07037302.1	
DHRX:26739301	X	26739301	26739400	100	1	3.16E-06	-2.5193948	0	0		
DHRX:63460301	X	63460301	63463000	2700	2	3.42E-05	-2.2485931	37	1.37	AABR07038886.2	
DHRX:91909001	X	91909001	91909200	200	2	7.64E-06	-1.6889994	0	0		
DHRX:111113901	X	111113901	111114100	200	1	6.94E-05	-2.1400902	2	1	Cldn2	Cytoskeleton
DHRX:131186601	X	131186601	131187000	400	1	9.20E-06	-1.8831736	0	0		
DHRX:150418201	X	150418201	150419900	1700	1	5.11E-05	-2.2841351	3	0.176		
DHRX:152735801	X	152735801	152736000	200	1	7.45E-05	2.0251727	2	1		

(E) Vinclozolin H3K27me Cauda DHR List

DHR Name	Chr	Start	Stop	Length	# Sig Win	minP	maxLFC	CpG #	CpG Density	Gene Annotation	Gene Category
DHR1:11924201	1	11924201	11930900	6700	4	1.72E-06	1.012934	99	1.478	RF01518	
DHR1:36748301	1	36748301	36750500	2200	2	9.18E-06	-1.0379509	68	3.091		
DHR1:38956501	1	38956501	38956700	200	1	2.75E-05	1.990229	2	1	AABR07001233.1	
DHR1:53670601	1	53670601	53670900	300	1	5.74E-05	1.5124603	1	0.333		
DHR1:55729501	1	55729501	55730400	900	1	1.00E-04	0.6446577	22	2.444	AABR07001734.1	
DHR1:148469801	1	148469801	148470500	700	3	1.81E-09	-1.1689159	8	1.143		
DHR1:148626701	1	148626701	148627500	800	1	4.87E-05	-0.9804167	11	1.375		
DHR1:148632701	1	148632701	148633700	1000	4	4.22E-08	-1.1698118	10	1		
DHR1:148652001	1	148652001	148653300	1300	2	2.83E-05	-1.0923662	25	1.923		
DHR1:159567001	1	159567001	159567500	500	1	6.54E-05	-1.4492069	4	0.8		
DHR1:180910101	1	180910101	180912000	1900	1	8.77E-05	1.345745	45	2.368		
DHR2:49370601	2	49370601	49371000	400	2	1.71E-07	-0.9532665	11	2.75		
DHR2:74318001	2	74318001	74318800	800	1	1.52E-05	-2.2132114	6	0.75	RF00560	
DHR2:80429901	2	80429901	80430400	500	1	5.41E-05	-1.1589134	2	0.4		
DHR2:160890001	2	160890001	160891700	1700	2	1.47E-06	0.8647259	20	1.176		
DHR2:160933401	2	160933401	160934200	800	1	3.83E-05	0.6932213	5	0.625		
DHR2:197168901	2	197168901	197169200	300	1	7.06E-05	1.392034	2	0.667		
DHR3:20524201	3	20524201	20524400	200	1	9.00E-06	-2.2558636	0	0	AABR07051735.1	
DHR3:25592801	3	25592801	25593500	700	1	6.90E-05	-2.0071134	9	1.286		
DHR3:133659701	3	133659701	133659800	100	1	4.21E-05	2.1233056	0	0		
DHR3:149735001	3	149735001	149735500	500	1	3.61E-05	1.8767362	9	1.8	Cdk5rap1;AABR07054355.1	Signaling
DHR3:149856501	3	149856501	149856700	200	1	1.21E-06	-1.4187899	8	4	Cdk5rap1	Signaling
DHR4:29649101	4	29649101	29650400	1300	1	1.11E-07	-1.3211625	4	0.308	Casd1	
DHR4:77446601	4	77446601	77453300	6700	4	1.18E-05	-0.6432391	226	3.373	AABR07060519.1;RF00019	
DHR4:96103101	4	96103101	96105600	2500	2	9.14E-09	-2.5869223	19	0.76		
DHR4:114548401	4	114548401	114548600	200	1	2.56E-05	-2.0936515	3	1.5		
DHR4:132936401	4	132936401	132937300	900	3	1.37E-06	-1.4074774	4	0.444		
DHR4:146538701	4	146538701	146548900	10200	64	6.68E-12	-1.5061998	299	2.931		
DHR4:146550201	4	146550201	146551400	1200	1	2.57E-06	-0.6944349	29	2.417		
DHR4:146561001	4	146561001	146563400	2400	3	1.12E-06	-1.301875	63	2.625		
DHR5:6372701	5	6372701	6374600	1900	17	1.39E-16	-2.7065932	33	1.737	AABR07046778.1	
DHR5:106596201	5	106596201	106596700	500	1	5.58E-06	-2.0830772	3	0.6	Focad	
DHR5:107131801	5	107131801	107133000	1200	2	9.00E-06	-2.2558585	7	0.583		
DHR5:146403201	5	146403201	146406100	2900	18	1.05E-12	-2.8586406	7	0.241	Csmd2	Unknown
DHR6:4208501	6	4208501	4208900	400	1	9.00E-05	-0.6486448	0	0		
DHR6:10806201	6	10806201	10809300	3100	1	4.25E-05	-1.6267457	128	4.129		
DHR6:30646401	6	30646401	30647800	1400	1	8.65E-05	0.9208162	15	1.071	AABR07063424.1;AABR07063425.3;AABR07063425.2;AABR07063425.1	
DHR6:31053801	6	31053801	31061400	7600	6	3.89E-08	1.0387415	108	1.421	AABR07063462.1	
DHR6:138199401	6	138199401	138200000	600	1	1.54E-05	-2.1350597	2	0.333	lghm	
DHR7:27563101	7	27563101	27563700	600	4	5.58E-10	-0.8072242	4	0.667		
DHR7:27579201	7	27579201	27579600	400	1	7.88E-07	-0.6121506	4	1		
DHR7:106327901	7	106327901	106328000	100	1	2.54E-05	-2.1693107	2	2		
DHR8:181301	8	181301	182300	1000	6	5.92E-09	-2.9050307	23	2.3		
DHR8:15593801	8	15593801	15598600	4800	1	5.86E-05	0.7755924	70	1.458		
DHR8:39893001	8	39893001	39893300	300	1	7.54E-06	1.3491164	0	0	LOC100911068;Robo3	Extracellular Matrix;Receptor
DHR8:40843801	8	40843801	40845100	1300	1	3.64E-05	1.1761534	7	0.538	AABR07069816.1	
DHR9:8405501	9	8405501	8407100	1600	1	7.75E-05	-1.9997786	4	0.25	AABR07066379.1	
DHR9:40516001	9	40516001	40518400	2400	9	3.66E-10	-1.2170326	14	0.583		
DHR9:40522201	9	40522201	40522800	600	2	1.16E-06	-1.1395896	3	0.5		
DHR9:119866801	9	119866801	119867000	200	1	6.97E-05	1.2811412	7	3.5	Mettl4;Ndc80	Epigenetic;Transcription
DHR10:44825101	10	44825101	44825800	700	2	4.02E-06	-0.7923615	14	2		
DHR10:75365301	10	75365301	75365400	100	1	3.65E-07	-2.4881398	0	0	Vezf1	Transcription
DHR10:110051401	10	110051401	110051600	200	1	6.75E-05	-2.1362662	0	0	Ccdc57	Unknown
DHR11:31012201	11	31012201	31012500	300	1	7.56E-05	-0.8971057	0	0	Eva1c	Unknown
DHR11:71268601	11	71268601	71268700	100	1	6.90E-05	-2.0071156	1	1	AABR07034428.1	
DHR12:38201	12	38201	39100	900	1	5.09E-05	1.5265742	15	1.667		
DHR12:50001	12	50001	51700	1700	1	3.18E-05	1.7489022	14	0.824	AABR07034833.1;AABR07034833.2	
DHR12:104401	12	104401	106900	2500	1	3.41E-05	1.1759492	11	0.44		
DHR12:9530301	12	9530301	9534100	3800	8	2.49E-10	-1.7048173	9	0.237		

DHR12:9535201	12	9535201	9550400	15200	63	1.23E-12	-2.8988306	49	0.322			
DHR12:10456301	12	10456301	10457100	800	3	4.03E-07	-1.6436451	4	0.5			
DHR13:33726401	13	33726401	33728500	2100	1	1.24E-05	0.7020146	49	2.333			
DHR13:84656301	13	84656301	84656400	100	1	6.60E-05	-1.9478541	2	2			
DHR14:46528801	14	46528801	46535500	6700	2	3.48E-05	0.8456106	114	1.701	AABR07015055.1;AABR07015057.1;AABR07015055.2;AABR07015056.1		
DHR14:46593201	14	46593201	46610100	16900	5	2.33E-07	0.8177238	278	1.645	AABR07015066.1;AABR07015067.1;AABR07015067.2		
DHR14:46657001	14	46657001	46662000	5000	3	1.73E-05	0.9918783	93	1.86	AABR07015078.1;AABR07015078.2;AABR07015079.1;AABR07015080.2;AABR07015081.2;AABR07015080.1;AABR07015081.1		
DHR14:48427401	14	48427401	48427800	400	1	1.84E-05	1.1188707	9	2.25			
DHR14:80323901	14	80323901	80327400	3500	2	1.79E-06	-1.3476111	42	1.2	Acox3	Metabolism	
DHR14:101989501	14	101989501	101993200	3700	3	1.69E-08	1.32186	62	1.676			
DHR14:101994201	14	101994201	101994500	300	1	8.05E-06	1.3322268	3	1			
DHR14:102070201	14	102070201	102072100	1900	1	6.93E-05	0.9083906	22	1.158			
DHR15:22214001	15	22214001	22216000	2000	1	1.97E-05	1.5412783	30	1.5			
DHR15:22347101	15	22347101	22348700	1600	1	7.62E-05	0.6810973	17	1.062			
DHR16:63201	16	63201	64100	900	1	5.72E-07	-1.7882113	3	0.333	AABR07024441.1		
DHR16:64912701	16	64912701	64913900	1200	1	3.78E-05	1.6163532	8	0.667	AABR07026120.1		
DHR16:80784601	16	80784601	80784800	200	1	3.34E-06	-1.5322023	0	0	Fbxo25		
DHR17:44233601	17	44233601	44234400	800	1	6.93E-05	0.8711112	12	1.5			
DHR17:86241401	17	86241401	86241600	200	1	8.96E-08	-1.9609257	0	0	AABR07028785.1		
DHR17:89445001	17	89445001	89446200	1200	1	8.82E-05	0.9444518	7	0.583	AABR07028872.1		
DHR18:80520201	18	80520201	80520400	200	2	4.32E-09	-3.1614705	2	1			
DHR19:56336401	19	56336401	56336600	200	2	1.86E-05	-0.8735126	13	6.5	Gas8;RF00001	Cell Cycle	
DHR19:56337601	19	56337601	56339400	1800	16	2.75E-14	-0.759682	88	4.889	Gas8;RF00001	Cell Cycle	
DHR20:4931901	20	4931901	4933900	2000	1	3.32E-05	-1.8146187	11	0.55	RT1-CE1;RT1-CE4;AABR07044408.1;RT1-CE3	Immune	
DHR20:5355301	20	5355301	5355600	300	1	6.32E-05	-1.2879578	2	0.667	AABR07044420.1;AABR07044420.2;RT1-A1;AABR07044421.1	Immune	
DHR20:19484001	20	19484001	19485200	1200	12	1.52E-17	-3.1742864	14	1.167	Fam13c		
DHR20:45349401	20	45349401	45349900	500	2	3.66E-10	-1.1973384	1	0.2	Rpf2;RF00411;Gtf3c6;RF00012;RF01848	Transcription	
DHRMT:1	MT	1	16300	16300	162	4.80E-26	-2.8406793	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-nd4;Mt-nd4;AY172581.23;AY172581.17;AY172581.11;Mt-nd5;Mt-nd6;AY172581.20;Mt-cyb;AY172581.8;AY172581.2		
DHRX:14951701	X	14951701	14955600	3900	7	7.02E-08	-2.0790603	20	0.513	RF00568;Slc38a5	Unknown	
DHRX:35262701	X	35262701	35265700	3000	1	9.45E-05	-1.014857	17	0.567			
DHRX:35267301	X	35267301	35267800	500	1	3.47E-05	-1.1799021	6	1.2			
DHRX:106167301	X	106167301	106168800	1500	2	4.89E-06	-1.1310342	12	0.8			
DHRX:106172201	X	106172201	106174500	2300	3	7.82E-06	-1.3015973	11	0.478			
DHRX:106175901	X	106175901	106180500	4600	6	1.33E-11	-1.3590641	27	0.587			
DHRY:1849101	Y	1849101	1850300	1200	1	6.76E-06	0.753775	41	3.417			