

Table S2. Genomic regions with the highest frequency of runs of homozygosity (ROH islands) occurrence across all animals per group.

Group	BTA	# SNPs	Start bp	End bp	Genes
hDF	1	675	106,645,514	106,908,592	ARL14, ENSBTAG00000049656, ENSBTAG00000049943, PPM1L
	7	190	49,691,470	49,900,760	bta-mir-2459, CDC25C, GFRA3, EGR1, ENSBTAG00000052249, ENSBTAG00000054382, ETF1, FAM53C, HSPA9, KDM3B, REEP2, SLBP2, SNORD63
	8	27	61,211,538	61,315,643	ZCCHC7
	8	19	61,393,975	61,449,116	ZCCHC7
	11	644	79,029,348	79,282,225	
	11	798	99,199,671	99,647,165	bta-mir-12056, CRAT, DOLK, DOLPP1, ENDOG, ENSBTAG00000036099, ENSBTAG00000055215, IER5L, KYAT1, LRRC8A, MIGA2, NUP188, PHYHD1, PKN3, PTPA, SET, SH3GLB2, SPOUT1, TBC1D13, U6, ZDHHC12, ZER1
	14	410	23,116,668	23,409,878	bta-mir-12050, CHCHD7, CLCN6, ENSBTAG00000045097, ENSBTAG00000049644, ENSBTAG00000051516, ENSBTAG00000053852, ENSBTAG00000054153, KIAA2013, LYN, MFN2, MIIP, MOS, MTHFR, NPPA, NPPB, PLAG1, PLOD1, RPS20, U1, U5
	16	937	41,624,790	41,939,418	AGTRAP
	16	434	41,939,940	42,292,997	AGTRAP, DISP3, DRAXIN, FBXO2, FBXO44, FBXO6, MAD2L2
	16	250	42,299,812	42,353,521	ENSBTAG00000049854
	18	99	14,627,147	14,842,392	DBNDD1, DEF8, ENSBTAG00000038051, ENSBTAG00000055124, FANCA, GAS8, MC1R, SPIRE2, TCF25, TUBB3, U1
	21	350	7,412,437	7,604,608	LRRC28, SYNM, TTC23
	26	151	506,033	691,845	UBE2D1
rDF	1	1071	99,426,412	99,801,506	GOLIM4, LRRC77, PDCD10, SERPINI1
	1	2073	100,958,315	101,324,016	
	1	757	106,577,808	106,908,593	ARL14, ENSBTAG00000049656, ENSBTAG00000049943, ENSBTAG00000055054, PPM1L
	1	760	112,795,420	113,163,480	
	2	1227	4,280,885	4,580,659	ENSBTAG00000050981, SAP130, UGGT1
	2	23	72,172,782	72,177,543	ENSBTAG00000019464
	2	932	72,226,163	72,51,6011	ENSBTAG00000050089
	2	478	106,329,099	106,642,920	BCS1L, CATIP, CNOT9, CTDSP1, MIR26B, PLCD4, PNKD, RNF25, SLC11A1, STK36, USP37, VIL1, ZNF142
	3	1363	8,713,303	9,501,436	ATP1A4, bta-mir-11983, CASQ1, CD244, CD48, CD84, COPA, DCAF8, ENSBTAG00000010458, ENSBTAG00000015741, ENSBTAG00000051438, ENSBTAG00000052819, LY9, NCSTN, PEA15, PEX19, SLAMF1, SLAMF6, SLAMF7, U6, VANGL2

7	1116	45,793,481	46,384,291	5S_rRNA, bta-mir-2285di, C7H5orf24, CAMLG, CDKL3, CDKN2AIPNL, DDX46, ENSBTAG00000050332, JADE2, PCBD2, PPP2CA, SAR1B, SEC24A, SKP1, TCF7, TXNDC15, U6, UBE2B
7	505	49,393,699	49,908,959	BRD8, bta-mir-2459, CDC23, CDC25C, EGR1, ENSBTAG00000044792, ENSBTAG00000044864, ENSBTAG00000054382, ENSBTAG00000054560, ETF1, FAM13B, FAM53C, GFRA3, HSPA9, KDM3B, KIF20A, NME5, PKD2L2, REEP2, SLBP2, SNORD63, WNT8A
7	1018	50,027,040	50,857,210	5S_rRNA, bta-mir-1949, CTNNA1, DNAJC18, ECSCR, ENSBTAG00000004415, ENSBTAG00000046926, LRRTM2, MATR3, MZB1, PAIP2, PROB1, SIL1, SLC23A1, SMIM33, SNORA74, SPATA24, STING1, UBE2D2
7	456	51,413,326	51,746,693	APBB3, CYSTM1, EIF4EBP3, ENSBTAG00000010871, ENSBTAG00000054857, HBEGF, PFDN1, SLC35A4, SLC4A9, SRA1, U6
8	131	61,209,017	61,451,866	ZCCHC7
8	62	72,722,223	72,785,824	DOCK5, GNRH1, KCTD9
8	1880	106,084,876	106,413,598	ASTN2
10	68	73,293,126	73,321,625	
10	371	73,333,656	73,689,533	ENSBTAG00000047000, PRKCH, TMEM30B
11	1026	17,908,878	18,189,921	
11	603	99,298,621	99,647,165	bta-mir-12056, CRAT, DOLK, DOLPP1, ENDOG, ENSBTAG00000036099, ENSBTAG00000055215, IER5L, KYAT1, LRRC8A, MIGA2, NUP188, PHYHD1, PTPA, SH3GLB2, SPOUT1
12	152	59,667,684	59,712,947	
13	857	7,475,527	7,750,096	ENSBTAG00000048850, SEL1L2
13	806	26,545,252	26,904,105	ENSBTAG00000047440, FZD8, GAD2, GJD4, MYO3A
13	35	48,965,632	48,992,476	
14	675	23,021,556	23,409,878	TMEM68, CHCHD7, ENSBTAG00000045097, ENSBTAG00000054153, LYN, PLAG1, RPS20, TGS1, U1
14	1230	34,842,119	35,402,846	EYA1
14	513	39,799,617	40,153,775	ZFHX4
15	541	35,159,302	35,422,793	ENSBTAG00000032859, NUCB2, PIK3C2A, RPS13, SNORD14
16	864	25,686,447	25,882,406	
16	467	41,809,486	42,007,254	AGTRAP, bta-mir-12050, CLCN6, DRAXIN, ENSBTAG00000049644, ENSBTAG00000051516, ENSBTAG00000053852, FBXO6, MAD2L2, MTHFR, NPPA, NPPB
16	149	42,009,038	42,171,425	DISP3, FBXO2, FBXO44, FBXO6
16	139	42,188,151	42,292,997	DISP3
16	331	44,367,358	44,489,927	CA6, ENSBTAG00000034323
17	16	34,921,218	34,927,099	

	18	543	14,271,722	14,713,902	ANKRD11, CDH15, CDK10, CHMP1A, CPNE7, DPEP1, ENSBTAG00000042786, ENSBTAG00000054975, FANCA, MC1R, RPL13, SLC22A31, SPATA2L, SPATA33, SPG7, SPIRE2, TCF25, TUBB3, VPS9D1, ZNF276
	20	1416	71,449,101	71,891,907	5S_rRNA, AHRR, CCDC127, CEP72, ENSBTAG00000026527, ENSBTAG00000052982, EXOC3, LRRC14B, PDCD6, SDHA, SLC9A3, TPPP, U6
	21	125	851,400	1,098,021	
	21	436	2,092,906	2,449,109	bta-mir-11995, ENSBTAG00000048764, ENSBTAG00000052727, ENSBTAG00000053856, SNORD115, SNORD116, UBE3A
	22	509	49,798,979	50,015,556	C22H3orf18, CACNA2D2, CYB561D2, NPRL2, RASSF1, ZMYND10
	22	469	51,519,621	51,693,926	CAMP, CATHL2, CATHL3, CATHL4, CATHL5, CATHL6, CDC25A, ENSBTAG00000016153, ENSBTAG00000031594, ENSBTAG00000039879, ENSBTAG00000052903, NME6
	24	661	30,824,756	31,056,263	ENSBTAG00000050912
	24	49	3,1057,360	31,121,134	
	26	582	16,337	719,883	ENSBTAG00000046109, ENSBTAG00000055208, OR5D18, UBE2D1
	26	1029	22,459,087	23,130,149	5S_rRNA, ACTR1A, ARMH3, bta-mir-146b, CUEDC2, ELOVL3, ENSBTAG00000051094, FBXL15, FGF8, GBF1, HPS6, KCNIP2, LDB1, MFSD13A, NFKB2, NOLC1, NPM3, OGA, PITX3, PPRC1, PSD, SNORD22, SUFU
	26	697	41,573,150	41,879,622	ATE1, ENSBTAG00000048561, ENSBTAG00000049142, NSMCE4A, TACC2
rHF	8	1451	105,893,347	106,205,184	ASTN2
	8	654	106,207,079	106,324,101	ASTN2
	14	536	22,787,828	22,887,796	XKR4
	14	17	22,999,212	23,004,758	
	16	516	44,888,195	45,091,226	bta-mir-2285ck, RERE, SLC45A1
	19	551	52,312,182	52,611,649	CARD14, CCDC40, EIF4A3, ENSBTAG00000017233, ENSBTAG00000030186, ENSBTAG00000053071, GAA, Metazoa_SRP, SGSH, SLC26A11, TBC1D16