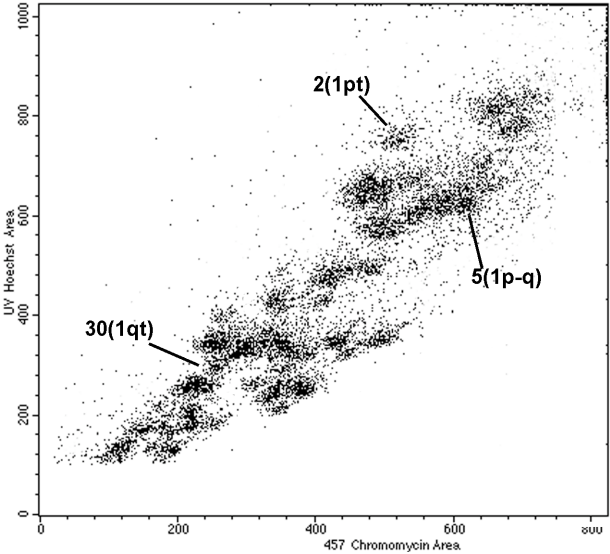


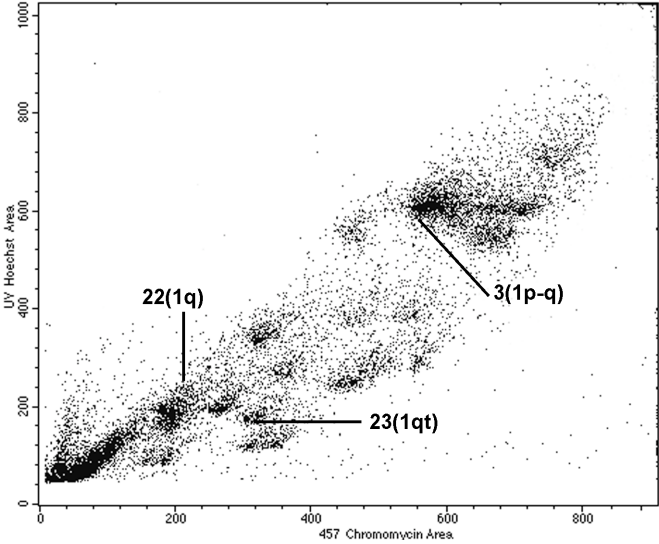
Table 1. Human chromosome 1 vs. feline comparative gene maps.

Human Locus	Human GB4-RH Map Position	Human Cytogenetic position	Cat Chromosome	Cat chromosome RH coordinates
GNB1	10.91-15.89	1p36.21-36.33	C1	25.03
VAMP3	23.89	1p36.23	C1	65.77
UBE4B	41.85	1p36.3	C1	89.5
ENO1		1p36.3-36.2	C1	104.74
TNFRSF1B	51.32	1p36.3-36.2	C1	117.43
NPPA	51.32	1p36	C1	120.1
FLJ10420	58.89-60.74	1p36.13	C1	143.76
ALPL	76.37	1p36.1-p34	B1	662.31-- 713.7
CDW52	88.54-.64	1p36	C1	193.05
FGR	94.50	1p36.2-36.1	C1	199.49
COL16A1	102.45	1p35-34	C1	273.75
YARS	102.93-103.96	1p34.3	C1	288.45
Hs.236810	106.79	1p35.3-34.2	C1	255.09
GJA4	109.74	1p35.1	C1	234.41
CAP	125.24	1p32	C1	313.47
KNSL6	130.12	1p34.1	C1	346.17
TESK2	130.39	1p32	C1	361.63
LEPR	174.42	1p31	C1	399.75
PTGER3	189.66-.95	1p32.1	C1	466.33
ACADM	193.68-205.37	1p31	C1	492.67
PTGFR	210.2	1p31.1	C1	494.91
ABCD3	266.24-266.34	1p22-p21	C1	536.16
EDG1	293.65-300.34	1p21	C1	605.19
GNAT2	337.29-339.65	1p13	C1	654.08
ADORA3	351.70	1p21-p13	C1	671.32
NRAS	370.04-372.16	1p13	C1	709.31
NGFB	374.13-387.14	1p13	C1	740.17
HSD3B1	401.92-417.67	1p13.1	C1	783.22
GJA8	536.12v	1q21	C1	810.65
RPS27	555.98v	1q21	F1	427.83
GBA	554.37-557.59	1q21	F1	432.19
PKLR	557.49	1q21	F1	437.7
CCT3	562.17	1q23	F1	440.2
FCGR3A	576.04-592.71	1q23	F1	456.7
CD3Z	603.42	1q22-23	F1	99.64
Hs.97375	623.54	1q24	F1	65.78
SERPINC1	625.33	1q23-25.1	F1	158.42
KIAA0475	629.89		F1	48.45
LAMC1	629.16-635.71	1q31	F1	181.17
C1orf14	635.56	1q25	F1	191.4
PDC	639.37	1q25-32.1	F1	242.44
TNNT2	665.26	1q32	F1	326.36
Hs.5825	670.89-672.43		F1	220.99
IL10	682.6	1q31-32	F1	288.5
TGFB2	703.89-704.71	1q41	F1	500.89
GUK1	720.4-723.93	1q32-q42	A1	549.23
ACTA1	727.57	1q42.13-q42.2	A1	811.38
LGALS8	739.59-742.88		D2	184.75
CHRM3	746.29	1q41-q44	D2	149.92
FLJ20531	777.83		A1	573.88--675.13

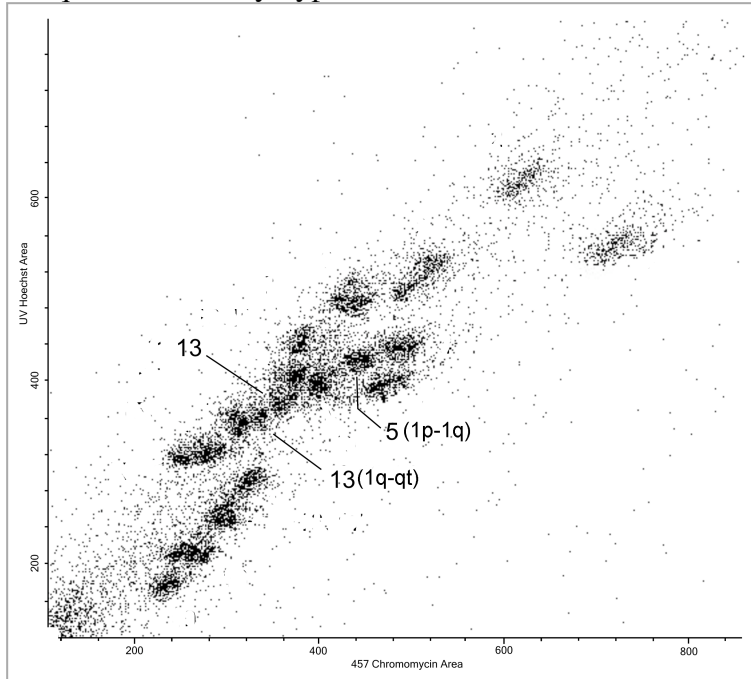
a. Horse flow karyotype



b. Lemur flow karyotype



c. Squirrel flow karyotype



References for additional flow karyotypes

- Froenicke, L., G. Stone, L. Adams, J. Wienberg, and R. Stanyon. in press. Towards the delineation of the ancestral eutherian genome organization: Comparative genome maps of human and the African elephant (*Loxodonta africana*) generated by chromosome painting. *Proceedings of the Royal Society of London. Series B, Biological Sciences* -.
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