



































Human Chromosome			Dog Chromosome		
Marker	Position	Marker	Position	Marker	Position
517886.00	contig_617564	scaffold_122909	17.13	contig_617564	384674.00
2343791.00	scaffold_122909	39062284	21.76	scaffold_122909	1292587.00
4516120.00	39062284	contig_617564	26.38	39062284	2443181.00
5818004.00	NLGN4X	NLGN4X	31.01	NLGN4X	3362049.00
6253504.00	contig_445130	contig_445130	35.63	contig_445130	3724476.00
6735063.00	contig_754913	contig_754913	47.44	contig_754913	4044010.00
7701751.00	contig_445240	contig_445240	64.11	contig_445240	4742409.00
8182191.00	contig_618136	contig_618136	66.29	contig_618136	5116305.00
9393038.00	TBL1X	TBL1X	85.14	TBL1X	6288150.00
9714495.00	SHROOM2	SHROOM2	96.63	SHROOM2	6454947.00
9716559.00	contig_445497	MID1	101.12	contig_445497	6457371.00
9907127.00	826277900	826277900	151.12	826277900	6629337.00
9967687.00	39085264	39085264	155.27	39085264	6692058.00
9995489.00	WMC3	AMELX	157.35	WMC3	6692058.00
10374374.00	MID1	FCR1322	158.91	MID1	7043934.00
10774374.00	FCR1322	AMELX	160.46	FCR1322	7485329.00
11224845.00	AMELX	39065680	163.67	AMELX	7781656.00
13942300.00	39065680	GLRR2	166.86	39065680	1091720.00
14457717.00	GLRR2	WMC3	166.86	GLRR2	1091720.00
16516045.00	CTP52	CTP52	176.49	CTP52	1279099.00
17605312.00	SCHL1	SCHL1	179.45	SCHL1	1379553.00
18167356.00	SCHL2	SCHL2	185.40	SCHL2	14291858.00
18671890.00	PKRA2	PKRA2	204.46	PKRA2	14907613.00
19272020.00	PDHR1	PDHR1	207.38	PDHR1	15291790.00
21302480.00	CNKSR2	CNKSR2	219.42	CNKSR2	17138560.00
21960480.00	PHEX	ZFX	230.93	PHEX	17783340.00
23882984.00	EIF2S3	PHEX	236.81	EIF2S3	19615880.00
24077684.00	ZFX	EIF2S3	242.68	ZFX	19713708.00
24568942.00	FCR1323	FCR1323	251.85	FCR1323	20124664.00
27782616.00	MAGEB3	MAGEB3	260.89	MAGEB3	22977812.00
28515480.00	IL1RAPL1	IL1RAPL1	271.09	IL1RAPL1	23893940.00
30164518.00	MAGEB2	MAGEB2	281.31	MAGEB2	25289900.00
31047266.00	DMD	DMD	291.51	DMD	27784496.00
34555104.00	THEM47	FCR1324	310.25	THEM47	29629156.00
37093544.00	PRRG1	THEM47	324.81	PRRG1	32034940.00
37201776.00	FCR1324	PRRG1	327.54	FCR1324	32097052.00
37893536.00	SRPX	SRPX	336.31	SRPX	32855556.00
38093928.00	OTC	BCOR	345.27	OTC	33093196.00
39795560.00	BCOR	OTC	348.11	BCOR	34571476.00
40944440.00	39047717	DDX3X	356.69	39047717	35587772.00
40976580.00	USP9X	39047717	365.12	USP9X	35608880.00
41094112.00	DDX3X	USP9X	370.60	DDX3X	35723776.00
41988228.00	FCR1325	FCR1325	385.06	FCR1325	36516082.00
43178632.00	FCR1326	FCR1326	399.62	FCR1326	37459784.00
43475582.00	MROA	MROA	405.14	MROA	37679624.00
44803536.00	UTX	UTX	419.69	UTX	38853616.00
46351076.00	SLOC9A7	SLOC9A7	422.57	SLOC9A7	40193960.00
46954389.00	UBR1	UBR1	425.45	UBR1	40749144.00
46973072.00	PCTK1	PCTK1	428.33	PCTK1	40766768.00
47315284.00	ARAF	ARAF	436.81	ARAF	41138192.00
48219492.00	FTSJ1	FTSJ1	444.85	FTSJ1	41677236.00
48635676.00	TIMM17B	TIMM17B	452.49	TIMM17B	42082860.00
50044280.00	CENB3	CENB3	454.94	CENB3	42916656.00
50678524.00	BMP15	BMP15	461.22	BMP15	43717112.00
51249604.00	NUDT11	NUDT11	467.50	NUDT11	44015020.00
51877664.00	contig_485887	contig_485887	484.91	contig_485887	44559264.00
53263532.00	JARID1C	JARID1C	500.06	JARID1C	44937900.00
55064276.00	ALAS2	ALAS2	507.40	ALAS2	46730084.00
55495264.00	MAGEH1	MAGEH1	512.21	MAGEH1	47049028.00
56276056.00	KLF8	KLF8	519.40	KLF8	47753456.00
56606796.00	UBQLN2	UBQLN2	524.06	UBQLN2	47895872.00
57178808.00	SPIN2A	SPIN2A	533.43	SPIN2A	48129396.00
57634992.00	ZXDB	ZXDB	535.65	ZXDB	48209228.00
61980700.00	contig_757223	contig_757223	551.64	contig_757223	49489104.00
62987052.00	contig_453034	contig_453034	572.68	contig_453034	52265832.00
63360800.00	ASB12	ASB12	586.21	ASB12	52388160.00
64052988.00	KIARA1166	KIARA1166	602.38	KIARA1166	52709288.00
64804236.00	MSN	MSN	616.26	MSN	53633132.00
65158304.00	VSIG4	VSIG4	622.95	VSIG4	53766688.00
65732208.00	EDAR2	EDAR2	632.00	EDAR2	54668632.00
67179440.00	OPHN1	OPHN1	654.68	OPHN1	55570576.00
67506280.00	FCR1049	FCR1049	657.05	FCR1049	56054592.00
67784240.00	STARDB8	STARDB8	663.12	STARDB8	56535952.00
68297424.00	PJRI	PJRI	669.07	PJRI	56730432.00
69270040.00	IGBP1	IGBP1	681.08	IGBP1	57513768.00
70240488.00	IL2RG	IL2RG	698.68	IL2RG	53040712.00
70664576.00	TRF1	TRF1	703.49	TRF1	53619224.00
71165648.00	FCR1327	FCR1327	713.72	FCR1327	59005416.00
71408624.00	RPS4X	RPS4X	727.18	RPS4X	59219452.00
72962632.00	XIST	XIST	738.07	XIST	60379324.00
74189832.00	ABCB7	ABCB7	740.78	ABCB7	61359944.00
74919552.00	MAGEE2	MAGEE2	745.12	MAGEE2	61929904.00
77041616.00	COX7B	COX7B	749.32	COX7B	63254924.00
77052768.00	ATP7A	ATP7A	752.07	ATP7A	63338256.00
77798224.00	ZCCHC5	ZCCHC5	760.39	ZCCHC5	63726456.00
78502536.00	ITM2A	ITM2A	763.03	ITM2A	64620072.00
79816352.00	BRWD3	BRWD3	771.29	BRWD3	65068676.00
82649952.00	POU3F4	POU3F4	776.99	POU3F4	67482984.00
83205944.00	RPS6KA6	RPS6KA6	779.89	RPS6KA6	67974960.00
84233952.00	SATL1	SATL1	785.98	SATL1	69099064.00
85006168.00	CHM	CHM	795.61	CHM	69688752.00
85290280.00	DACH2	DACH2	798.82	DACH2	69880384.00
89063600.00	TGIF2LX	TGIF2LX	802.01	TGIF2LX	71372400.00
90577280.00	PABPC5	PABPC5	805.20	PABPC5	71542456.00
95826368.00	DIAPH2	DIAPH2	808.40	DIAPH2	73958080.00
97514440.00	contig_455044	contig_455044	811.61	contig_455044	75038504.00
99433296.00	PCDH19	PCDH19	825.67	PCDH19	77248968.00
100513120.00	BTK	BTK	832.43	BTK	78355200.00
102217408.00	NXF3	NXF3	835.62	NXF3	79108304.00
104219128.00	contig_455745	AMNCCR1	845.34	contig_455745	81603000.00
106030048.00	CLDN2	TRPCS	849.96	CLDN2	83543576.00
107221696.00	RTN4	contig_758358	854.57	RTN4	84701768.00
109328272.00	AMNCCR1	AMNCCR1	858.87	AMNCCR1	85470696.00
110904200.00	TRPCS	HTR2C	863.16	TRPCS	87980204.00
112633328.00	contig_758358	AGTR2	869.14	contig_758358	88217568.00
111904384.00	AMOT	BIRC4	872.21	AMOT	88899056.00
114047280.00	HTR2C	contig_458332	875.28	HTR2C	90407752.00
115216064.00	AGTR2	contig_758803	878.19	AGTR2	91768912.00
115481816.00	SLC6A14	CUL4BX	881.11	SLC6A14	92005080.00
116915808.00	KLHL13	PGRMC1	884.03	KLHL13	93204784.00
117745584.00	IL13RA1	IL13RA1	889.73	IL13RA1	93990880.00
118254304.00	PGRMC1	KLHL13	892.51	PGRMC1	94396304.00
119542504.00	CUL4BX	SLC6A14	901.83	CUL4BX	95559400.00
120303208.00	contig_758803	RTN4	911.15	contig_758803	96232016.00
121405496.00	contig_458332	CLDN2	912.72	contig_458332	97260744.00
122821728.00	BIRC4	contig_455745	914.34	BIRC4	98369168.00
123307872.00	SH2D1A	SH2D1A	931.51	SH2D1A	98807736.00
128408160.00	SMARCA1	SMARCA1	941.02	SMARCA1	103732904.00
129091016.00	RIFM1	RIFM1	944.32	RIFM1	104337920.00
130505728.00	OR13H1	OR13H1	947.52	OR13H1	105700664.00
134247392.00	ZNF75	ZNF75	950.75	ZNF75	108852480.00
138440560.00	F9	F9	956.99	F9	112598872.00
140753760.00	MAGEC3	MAGEC3	960.09	MAGEC3	113758712.00
144707040.00	SLITRK2	SLITRK2	973.35	SLITRK2	117646736.00
146801200.00	FMR1	FMR1	979.92	FMR1	119332240.00
147393004.00	AFF2	AFF2	983.20	AFF2	119919640.00
151837328.00	ZNF185	ZNF185	989.96	ZNF185	123839984.00
152424624.00	BGN	BGN	995.22	BGN	124375008.00
153143600.00	OPN1LW	MPP1	1000.46	OPN1LW	125022392.00
153660176.00	MPP1	OPN1LW	1003.75	MPP1	125872536.00
154650672.00	SPRY3	SPRY3	1010.34	SPRY3	126630112.00