

## Supplement to Nair et al., Human Molecular Genetics, 1997

### Parametric and nonparametric linkage analysis results for all markers tested

Marker	KcM from pter*	Distance from above	ILINK				SIBPAIR		SPLINK		GENEHUNTER	
			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
<i>Chromosome 1</i>												
D1S243	0		0.053	0.415	0.370	0.331	0.00	0.5000	0.01	0.4882	1.13	0.1289
D1S214	16.4	16.4	0.000	0.500	0.493	0.257	0.00	0.5000	0.05	0.4043	1.65	0.0506
D1S228	32.4	16.0	0.322	0.269	0.000	0.500	0.25	0.1400	0.07	0.3622	1.45	0.0749
D1S199	47.7	15.3	0.156	0.323	0.088	0.323	0.47	0.0715	0.28	0.1781	0.79	0.2118
D1S2676	62.9	15.2	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5873	-0.66	0.7427
D1S447	74.8	11.9	0.170	0.317	0.000	0.500	0.12	0.2285	0.22	0.2145	-0.40	0.6517
D1S203	92.5	17.7	0.003	0.475	0.044	0.455	0.00	0.5000	0.00	0.5773	-1.27	0.9008
D1S464	106.7	14.2	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5869	-1.08	0.8609
D1S488	118.1	11.4	0.000	0.500	0.000	0.500	0.03	0.3638	0.00	0.5720	-0.66	0.7435
D1S420	133.0	14.9	0.000	0.500	0.000	0.500	0.12	0.2331	0.00	0.5868	-0.61	0.7277
D1S457	147.8	14.8	0.000	0.500	0.004	0.352	0.56	0.0547	0.61	0.0700	0.10	0.4551
D1S305	164.1	16.3	0.000	0.500	0.000	0.500	0.19	0.1754	0.20	0.2290	0.60	0.2695
D1S194	183.3	19.2	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5828	0.17	0.4273
D1S196	186.4	3.1	0.000	0.500	0.000	0.500	0.19	0.1759	0.18	0.2383	0.26	0.3904
D1S416	197.0	10.6	0.000	0.500	0.000	0.500	0.38	0.0939	0.23	0.2052	0.74	0.2250
D1S412	213.2	16.2	0.038	0.354	0.542	0.319	0.31	0.1145	0.19	0.2357	0.42	0.3335
D1S491	232.0	18.8	0.000	0.500	0.018	0.461	0.00	0.4944	0.00	0.5861	-0.18	0.5647

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			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
D1S225	249.0	17.0	0.000	0.500	0.037	0.449	0.00	0.5000	0.00	0.5911	-0.28	0.6049
D1S235	258.7	9.7	0.000	0.500	0.086	0.396	0.00	0.5000	0.06	0.3797	-0.24	0.5894
D1S304	272.0	13.3	0.645	0.220	0.045	0.341	0.64	0.0435	0.63	0.0652	0.01	0.4910
D1S423	282.7	10.7	0.000	0.500	0.000	0.500	0.46	0.0734	0.08	0.3467	0.19	0.4205
<i>Chromosome 2</i>												
D2S319	6.0		0.658	0.236	0.169	0.366	0.31	0.1145	0.60	0.0711	0.01	0.4916
D2S162	21.3	15.3	0.000	0.500	0.141	0.405	0.02	0.3705	0.01	0.5126	-0.55	0.7067
D2S149	35.8	14.5	0.000	0.500	0.373	0.305	0.27	0.1317	0.05	0.3851	0.29	0.3795
D2S144	48.5	12.7	0.000	0.500	0.050	0.402	0.05	0.3227	0.00	0.5473	-0.29	0.6105
D2S367	58.3	9.8	0.000	0.488	0.000	0.500	0.00	0.5000	0.00	0.5761	-1.19	0.8845
D2S391	73.8	15.5	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5931	0.14	0.4377
D2S136	87.5	13.7	0.051	0.427	0.003	0.487	0.00	0.5000	0.00	0.5858	-0.23	0.5867
D2S286	98.4	10.9	0.012	0.331	0.000	0.500	0.85	0.0239	0.36	0.1398	0.65	0.2537
D2S289	107.1	8.7	0.205	0.340	0.114	0.413	0.10	0.2470	0.00	0.5505	0.11	0.4508
D2S293	122.4	15.3	0.033	0.376	0.001	0.485	0.11	0.2395	0.21	0.2168	0.43	0.3300
D2S110	134.6	12.2	0.004	0.483	0.342	0.349	0.05	0.3199	0.00	0.5887	0.07	0.4680
D2S112	145.8	11.2	0.000	0.500	0.000	0.500	0.06	0.2959	0.00	0.5416	-0.26	0.6001
D2S298	157.0	11.2	0.018	0.450	0.360	0.288	0.08	0.2763	0.02	0.4750	0.35	0.3559
D2S156	170.5	13.5	0.153	0.349	0.382	0.284	0.16	0.1947	0.47	0.1027	0.64	0.2581
D2S326	184.1	13.6	0.159	0.316	0.032	0.378	0.12	0.2256	0.19	0.2367	0.72	0.2311
D2S389	196.9	12.8	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5904	-0.07	0.5241
D2S325	210.9	14.0	0.000	0.500	0.000	0.500	0.06	0.3013	0.01	0.5024	0.71	0.2346

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			lod	$\theta$	lod	$\theta$						
D2S339	228.8	17.9	0.000	0.500	0.000	0.500	0.03	0.3512	0.00	0.5917	-0.10	0.5332
D2S396	240.2	11.4	0.004	0.430	0.000	0.500	0.00	0.5000	0.02	0.4590	0.08	0.4608
D2S336	253.0	12.8	0.259	0.317	0.000	0.500	0.45	0.0742	0.27	0.1796	0.57	0.2808
D2S125	269.5	16.5	0.311	0.292	0.000	0.500	0.49	0.0661	0.39	0.1289	-0.30	0.6137
D2S395	270.1	0.6	0.000	0.500	0.008	0.473	0.02	0.3871	0.07	0.3643	-0.68	0.7521
<i>Chromosome 3</i>												
D3S1270	0.0		0.022	0.394	0.000	0.500	0.00	0.5000	0.01	0.4877	0.45	0.3216
D3S1304	16.5	16.5	0.000	0.500	0.004	0.424	0.06	0.2934	0.07	0.3609	1.04	0.1476
D3S1259	30.9	14.4	0.183	0.347	0.388	0.321	0.09	0.2638	0.28	0.1772	0.73	0.2287
D3S1293	36.9	6.0	0.051	0.384	0.005	0.384	0.08	0.2724	0.27	0.1799	1.46	0.0727
D3S1619	55.4	18.5	0.848	0.244	0.863	0.271	0.27	0.1346	0.36	0.1375	1.86	0.0334
D3S1581	67.7	12.3	0.108	0.408	0.059	0.433	0.00	0.5000	0.00	0.5938	0.54	0.2887
D3S1600	85.7	18.0	0.146	0.404	1.630	0.208	0.01	0.4270	0.01	0.5126	1.15	0.1242
D3S1261	97.2	11.5	0.536	0.299	0.863	0.257	0.34	0.1063	0.27	0.1820	1.48	0.0698
D3S1603	115.7	18.5	0.099	0.408	0.303	0.360	0.00	0.5000	0.00	0.5727	-0.26	0.5990
D3S1302	125.5	9.8	0.032	0.416	0.000	0.500	0.00	0.5000	0.00	0.5812	-1.04	0.8520
D3S1303	138.4	12.9	0.006	0.482	0.129	0.395	0.00	0.5000	0.00	0.5879	-0.31	0.6190
D3S1576	156.1	17.7	0.180	0.324	0.252	0.303	0.45	0.0744	0.40	0.1223	0.51	0.3012
D3S1555	169.4	13.3	0.007	0.473	0.156	0.357	0.17	0.1869	0.00	0.5464	0.02	0.4876
D3S1614	183.1	13.7	0.000	0.500	0.023	0.457	0.00	0.5000	0.00	0.5886	-1.47	0.9327
D3S1571	200.0	16.9	0.136	0.357	0.065	0.424	0.00	0.5000	0.00	0.5890	-0.13	0.5466
D3S1580	213.7	13.7	0.002	0.481	0.080	0.418	0.12	0.2261	0.29	0.1722	-0.03	0.5055

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			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$	lod	p value	lod	p value	NPL	p value
D3S1311	230.7	17.0	0.000	0.500	0.046	0.320	0.47	0.0710	0.31	0.1597	0.35	0.3592
<i>Chromosome 4</i>												
D4S412	3.7		0.000	0.500	0.337	0.356	0.03	0.3487	0.11	0.3053	0.53	0.2940
D4S1582	22.0	18.3	0.000	0.500	0.480	0.314	0.16	0.1979	0.36	0.1398	1.72	0.0444
D4S1551	38.3	16.3	0.000	0.500	1.616	0.190	0.25	0.1440	0.30	0.1641	2.27	0.0131
D4S1581	51.1	12.8	0.021	0.458	0.175	0.358	0.00	0.4900	0.00	0.5856	0.61	0.2678
D4S428	63.9	12.8	0.090	0.402	0.106	0.417	0.00	0.5000	0.00	0.5849	-0.53	0.7009
D4S392	77.9	14.0	0.473	0.278	0.090	0.372	0.02	0.3703	0.07	0.3627	0.71	0.2338
D4S1538	91.9	14.0	0.032	0.398	0.798	0.244	0.30	0.1194	0.10	0.3155	0.94	0.1720
D4S1570	107.4	15.5	0.001	0.494	0.026	0.464	0.00	0.5000	0.00	0.5867	-0.45	0.6698
D4S427	123.5	16.1	0.011	0.476	0.000	0.500	0.00	0.5000	0.00	0.5914	-0.51	0.6911
D4S1579	139.8	16.3	0.000	0.498	0.000	0.500	0.00	0.4491	0.00	0.5819	-0.26	0.5979
D4S1586	146.4	6.6	0.083	0.336	0.874	0.232	0.96	0.0178	0.78	0.0438	1.12	0.1307
D4S1548	153.6	7.2	0.000	0.500	0.160	0.351	0.73	0.0333	0.82	0.0397	1.91	0.0297
D4S413	157.9	4.3	0.000	0.500	1.010	0.235	1.50	0.0043	0.97	0.0269	1.79	0.0386
D4S620	167.7	9.8	0.203	0.318	0.118	0.303	0.66	0.0412	0.77	0.0450	1.88	0.0320
D4S1566	170.9	3.2	0.157	0.325	0.772	0.251	0.76	0.0310	0.77	0.0461	2.10	0.0195
D4S1595	178.4	7.5	0.137	0.344	0.439	0.289	0.65	0.0420	0.43	0.1133	2.07	0.0210
D4S1607	187.2	8.8	0.117	0.360	0.111	0.306	0.63	0.0440	0.60	0.0716	1.58	0.0580
D4S1535	198.5	11.3	0.000	0.500	0.000	0.500	0.03	0.3479	0.00	0.5436	0.01	0.4898
D4S426	211	12.5	0.050	0.376	0.000	0.500	0.00	0.4777	0.00	0.5887	-0.51	0.0692
<i>Chromosome 5</i>												

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			lod	$\theta$	lod	$\theta$						
D5S392	0.0		0.418	0.269	0.000	0.500	0.99	0.0163	0.73	0.0511	1.45	0.0741
D5S406	10.7	10.7	0.025	0.352	0.126	0.305	0.43	0.0790	0.37	0.1333	0.99	0.1599
D5S432	21.4	10.7	0.583	0.252	0.000	0.500	0.04	0.3291	0.03	0.4427	0.71	0.2336
D5S661	40.6	19.2	0.150	0.354	0.000	0.500	0.00	0.4553	0.00	0.5861	-0.23	0.5866
D5S418	58.1	17.5	0.000	0.500	0.011	0.458	0.00	0.5000	0.00	0.5899	-0.83	0.7966
D5S431	70.0	11.9	0.029	0.404	0.000	0.500	0.07	0.2905	0.07	0.3645	-0.44	0.6675
D5S424	82.8	12.8	0.192	0.336	0.133	0.397	0.00	0.5000	0.01	0.4912	-0.24	0.5895
D5S401	97.8	15.0	0.336	0.265	0.220	0.288	0.27	0.1336	0.21	0.2136	0.77	0.2162
D5S421	121.4	23.6	0.116	0.342	0.000	0.500	0.11	0.2407	0.06	0.3841	0.58	0.2775
D5S642	134.4	13.0	0.908	0.232	0.160	0.335	0.09	0.2603	0.04	0.4236	0.81	0.2053
D5S399	141.4	7.0	0.127	0.361	0.019	0.442	0.01	0.4200	0.00	0.5444	0.51	0.2996
D5S638	146.6	5.2	0.000	0.500	0.000	0.500	0.02	0.3945	0.00	0.5865	-0.30	0.6125
D5S412	161.0	14.4	0.019	0.465	0.017	0.473	0.00	0.5000	0.00	0.5906	-1.18	0.8827
D5S425	179.1	18.1	0.000	0.500	0.000	0.500	0.00	0.4691	0.00	0.5890	-0.36	0.6369
D5S408	195.8	16.7	0.000	0.500	0.000	0.500	0.36	0.0975	0.35	0.1434	0.25	0.3972
<i>Chromosome 6</i>												
D6S344	1.4		0.346	0.292	0.000	0.500	0.00	0.4603	0.00	0.5336	-0.02	0.5018
D6S309	13.6	12.2	0.000	0.500	0.000	0.500	0.44	0.0780	0.32	0.1573	0.10	0.4529
D6S89	25.5	11.9	0.000	0.500	0.023	0.445	0.01	0.4244	0.00	0.5355	-0.98	0.8368
D6S259	27.1	1.6	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5875	-0.74	0.7699
D6S109	32.0	4.9	0.000	0.500	0.000	0.500	0.01	0.3995	0.11	0.3073	-0.04	0.5119
D6S285	34.2	2.2	0.147	0.305	0.000	0.500	0.56	0.0544	0.25	0.1849	0.27	0.3888

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D6S299	41.3	7.1	0.862	0.218	0.000	0.498	0.21	0.1655	0.12	0.2970	0.87	0.1904
D6S105	42.7	1.4	0.975	0.218	0.018	0.447	0.32	0.1132	0.16	0.2556	1.29	0.0987
D6S273	44.9	2.2	1.029	0.203	0.000	0.500	0.41	0.0853	0.25	0.1875	1.04	0.1467
D6S276	44.9	0.0	2.238	0.149	0.242	0.338	1.17	0.0103	0.60	0.0714	1.19	0.1160
TNFB	45.25	0.35	2.585	0.141	0.126	0.385	1.13	0.0113	1.05	0.0227	1.57	0.0592
D6S291	49.8	4.55	1.023	0.202	0.035	0.410	0.82	0.0261	0.43	0.1161	2.06	0.0217
D6S282	66.4	16.6	0.063	0.347	0.094	0.408	0.74	0.0320	0.92	0.0312	1.03	0.1496
D6S269	72.8	6.4	0.627	0.240	0.015	0.447	0.99	0.0165	0.51	0.0892	0.39	0.3434
D6S294	78.8	6.0	0.000	0.500	0.000	0.500	0.12	0.2245	0.25	0.1932	-0.01	0.4996
D6S280	87.7	8.9	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5852	-1.18	0.8837
D6S275	101.6	13.9	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5857	-1.43	0.9267
D6S302	118.7	17.1	0.002	0.485	0.137	0.413	0.00	0.5000	0.00	0.5851	-0.77	0.7805
D6S407	126.5	7.8	0.074	0.405	0.310	0.346	0.02	0.3817	0.00	0.5822	0.69	0.2427
D6S472	132.7	6.2	0.678	0.226	0.925	0.232	0.71	0.0355	0.26	0.1851	1.65	0.0505
D6S270	136.4	3.7	0.756	0.244	1.275	0.239	1.34	0.0064	1.26	0.0132	2.54	0.0068
D6S310	144.4	8.0	0.197	0.279	0.057	0.340	0.31	0.1169	0.41	0.1197	1.82	0.0358
D6S441	155.3	10.9	0.000	0.500	0.000	0.500	0.02	0.3735	0.01	0.5250	0.21	0.4097
D6S419	162.3	7.0	0.270	0.292	0.080	0.357	0.56	0.0541	0.46	0.1048	0.32	0.3674
D6S305	166.6	4.3	0.267	0.302	0.000	0.500	0.69	0.0379	0.27	0.1830	-0.35	0.6347
D6S264	179.1	12.5	0.182	0.302	0.752	0.240	0.85	0.0238	0.54	0.0839	0.67	0.2472
D6S446	188.4	9.3	0.000	0.500	0.000	0.500	0.05	0.3098	0.04	0.4032	-0.04	0.5118
D6S281	201.1	12.7	0.000	0.500	0.000	0.500	0.07	0.2840	0.00	0.5854	0.00	0.4941

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			Recessive lod	$\theta$	Dominant lod	$\theta$	lod	p value	lod	p value	NPL	p value
<i>Chromosome 7</i>												
D7S531	4.8		0.004	0.478	0.030	0.462	0.00	0.5000	0.00	0.5868	-1.31	0.9082
D7S513	16.0	11.2	0.289	0.306	0.000	0.500	0.01	0.4133	0.00	0.5878	-0.95	0.8294
D7S503	29.6	13.6	0.052	0.409	0.127	0.427	0.00	0.5000	0.00	0.5894	-1.06	0.8569
D7S516	42.1	12.5	0.220	0.339	0.071	0.444	0.00	0.5000	0.01	0.5138	-0.54	0.7033
D7S484	55.6	13.5	0.142	0.341	0.000	0.500	0.05	0.3212	0.01	0.4954	0.71	0.2347
D7S478	69.4	13.8	0.003	0.415	0.000	0.500	0.01	0.4190	0.02	0.4687	0.01	0.4884
D7S663	79.6	10.2	0.204	0.320	0.696	0.277	0.60	0.0476	0.67	0.0592	1.03	0.1505
D7S524	98.0	18.4	0.044	0.430	0.204	0.389	0.00	0.5000	0.00	0.5864	-0.54	0.7041
D7S518	112.9	14.9	0.171	0.345	0.444	0.307	0.70	0.0364	0.61	0.0697	0.73	0.2288
D7S1873	129.4	16.5	0.130	0.391	0.324	0.345	0.22	0.1593	0.37	0.1362	1.09	0.1369
D7S500	142.9	13.5	0.099	0.386	0.671	0.272	0.22	0.1589	0.20	0.2219	1.65	0.0508
D7S498	158.3	15.4	0.606	0.226	0.141	0.281	0.77	0.0302	0.43	0.1152	0.98	0.1626
D7S483	167.6	9.3	0.058	0.360	0.000	0.500	0.00	0.5000	0.01	0.5052	-0.11	0.5388
D7S550	180.8	13.2	0.001	0.487	0.000	0.500	0.00	0.5000	0.00	0.5896	-1.15	0.8762
<i>Chromosome 8</i>												
D8S264	0.7		0.009	0.470	0.255	0.395	0.00	0.5000	0.00	0.5892	-0.56	0.7110
D8S503	15.5	14.8	0.206	0.291	0.000	0.500	0.01	0.3992	0.27	0.1781	0.06	0.4699
D8S552	25.8	10.3	0.000	0.500	0.000	0.500	0.00	0.4614	0.22	0.2085	0.42	0.3318
D8S560	42.2	16.4	0.000	0.500	0.000	0.500	0.00	0.4644	0.00	0.5348	-0.11	0.5396
D8S283	60.0	17.8	0.000	0.500	0.014	0.451	0.03	0.3652	0.07	0.3635	-0.62	0.7320
D8S285	70.6	10.6	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5846	-1.79	0.9663

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			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
D8S530	89.2	18.6	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5855	-0.76	0.7769
D8S270	102.1	12.9	0.009	0.404	0.213	0.340	0.03	0.3466	0.18	0.2422	0.72	0.2332
D8S556	116.8	14.7	0.984	0.211	0.213	0.332	0.29	0.1252	0.38	0.1321	0.72	0.2333
D8S514	128.9	12.1	0.133	0.371	0.427	0.310	0.00	0.5000	0.00	0.5839	1.29	0.0991
D8S558	144.8	15.9	0.004	0.485	0.283	0.351	0.00	0.5000	0.00	0.5884	-0.32	0.6218
D8S274	153.0	8.2	0.000	0.500	0.170	0.376	0.00	0.5000	0.00	0.5814	-0.44	0.6655
<i>Chromosome 9</i>												
D9S288	8.8		0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5898	-0.14	0.5495
D9S269	22.8	14.0	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5881	-0.12	0.5432
D9S162	33.3	10.5	0.000	0.496	0.285	0.339	0.00	0.5000	0.00	0.5885	0.07	0.4676
D9S161	50.3	17.0	0.042	0.344	0.027	0.446	0.00	0.5000	0.01	0.4966	-0.14	0.5510
D9S273	64.5	14.2	0.000	0.500	0.000	0.495	0.00	0.5000	0.00	0.5908	-0.34	0.6280
D9S153	77.7	13.2	0.000	0.500	0.000	0.500	0.02	0.3782	0.03	0.4472	-0.15	0.5558
D9S283	93.2	15.5	0.000	0.500	0.124	0.369	0.00	0.5000	0.00	0.5926	-0.57	0.7143
D9S277	109.8	16.6	0.001	0.491	0.138	0.402	0.00	0.5000	0.00	0.5912	-0.80	0.7888
D9S177	124.4	14.6	0.039	0.427	0.231	0.324	0.00	0.5000	0.01	0.4957	0.40	0.3396
D9S282	136.2	11.8	0.001	0.495	0.000	0.500	0.00	0.5000	0.00	0.5856	0.35	0.3575
D9S164	148.1	11.9	0.287	0.283	0.143	0.280	0.65	0.0415	0.70	0.0550	1.44	0.0762
D9S158	163.0	14.9	0.104	0.361	0.483	0.225	0.48	0.0680	0.41	0.1228	2.06	0.0214
<i>Chromosome 10</i>												
D10S249	0.0		0.304	0.292	0.000	0.500	0.08	0.2663	0.03	0.4511	0.30	0.3769
D10S189	17.3	17.3	0.000	0.500	0.000	0.500	0.14	0.2091	0.09	0.3350	0.43	0.3289

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			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
D10S223	32.0	14.7	0.119	0.323	0.000	0.500	0.00	0.5000	0.00	0.5848	-0.23	0.5875
D10S582	46.7	14.7	0.075	0.323	0.000	0.500	0.01	0.4109	0.03	0.4328	-0.45	0.6703
D10S208	60.2	13.5	0.126	0.352	0.000	0.500	0.00	0.4977	0.00	0.5854	-0.93	0.8239
D10S539	75.4	15.2	0.001	0.478	0.001	0.483	0.00	0.5000	0.01	0.5271	0.81	0.2070
D10S581	84.9	9.5	0.000	0.500	0.000	0.500	0.10	0.2535	0.26	0.1900	1.55	0.0618
D10S569	103.2	18.3	1.072	0.226	1.772	0.196	2.19	0.0008	1.88	0.0028	2.07	0.0208
D10S583	122.0	18.8	0.251	0.351	1.299	0.227	0.28	0.1299	0.56	0.0801	1.80	0.0379
D10S530	134.7	12.7	0.438	0.272	0.515	0.257	0.76	0.0308	0.67	0.0591	1.37	0.0859
D10S209	150.7	16.0	0.000	0.500	0.072	0.410	0.01	0.4148	0.00	0.5363	0.03	0.4807
D10S186	165.4	14.7	0.468	0.269	0.137	0.348	0.09	0.2560	0.15	0.2631	0.31	0.3736
D10S212	180.7	15.3	1.178	0.205	0.290	0.247	1.28	0.0076	0.74	0.0481	1.30	0.0974
<i>Chromosome 11</i>												
D11S1318	6.0	0.0	0.000	0.500	0.000	0.500	0.00	0.4493	0.02	0.4566	0.05	0.4741
D11S1331	14.8	8.8	0.000	0.500	0.000	0.500	0.01	0.4216	0.03	0.4267	0.27	0.3865
D11S902	24.7	9.9	0.000	0.500	0.000	0.500	0.10	0.2439	0.12	0.3006	1.08	0.1392
D11S1359	32.5	7.8	0.342	0.233	0.000	0.500	1.82	0.0019	1.42	0.0088	2.28	0.0129
D11S904	37.0	4.5	0.000	0.500	0.000	0.500	0.39	0.0911	0.55	0.0817	2.06	0.0215
D11S914	42.0	5.0	0.000	0.500	0.004	0.361	0.05	0.3102	0.09	0.3381	1.73	0.0433
D11S935	49.6	7.6	0.000	0.500	0.338	0.292	0.12	0.2255	0.14	0.2765	1.46	0.0730
D11S1360	54.2	4.6	0.072	0.318	0.000	0.500	1.66	0.0028	0.60	0.0703	2.30	0.0122
D11S903	59.5	5.3	0.085	0.346	0.261	0.284	0.27	0.1346	0.40	0.1221	2.09	0.0201
D11S1337	72.1	12.6	0.000	0.500	0.000	0.500	0.08	0.2704	0.03	0.4452	1.02	0.1516

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Marker	KcM from pter*	Distance from above	ILINK				SIBPAIR		SPLINK		GENEHUNTER	
			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
D11S916	80.1	8.0	0.000	0.500	0.000	0.500	0.00	0.5000	0.05	0.4005	0.43	0.3276
D11S901	89.8	9.7	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5865	-0.80	0.7889
D11S1358	96.3	6.5	0.000	0.500	0.000	0.500	0.00	0.5000	0.01	0.5163	0.01	0.4893
D11S927	108.7	12.4	0.001	0.491	0.000	0.500	0.00	0.5000	0.00	0.5909	-0.34	0.6294
D11S925	123.5	14.8	0.072	0.412	0.669	0.240	0.15	0.2024	0.32	0.1595	1.86	0.0334
D11S912	136.9	13.4	0.054	0.423	0.670	0.256	0.25	0.1429	0.17	0.2509	2.02	0.0236
D11S968	152.8	15.9	0.139	0.387	0.520	0.277	0.23	0.1510	0.12	0.2962	1.25	0.1064
<i>Chromosome 12</i>												
D12S352	0.0		0.000	0.500	0.000	0.500	0.00	0.5000	0.05	0.3974	-1.41	0.9239
D12S99	13.9	13.9	0.000	0.500	0.000	0.500	0.06	0.2998	0.07	0.3634	-0.24	0.5919
D12S89	24.6	10.7	0.001	0.494	0.000	0.500	0.00	0.5000	0.00	0.5907	-0.78	0.7827
D12S310	36.1	11.5	0.713	0.213	0.354	0.247	1.03	0.0149	0.54	0.0854	-0.07	0.5217
D12S87	53.3	17.2	0.121	0.339	0.035	0.412	0.12	0.2290	0.03	0.4418	0.57	0.2807
D12S368	67.3	14.0	0.050	0.379	0.314	0.371	0.00	0.4487	0.00	0.5758	0.98	0.1614
D12S313	80.2	12.9	0.000	0.500	0.015	0.425	0.00	0.5000	0.06	0.3826	1.30	0.0962
D12S81	95.0	14.8	0.130	0.361	0.171	0.372	0.01	0.4254	0.00	0.5875	0.96	0.1657
D12S306	106.7	11.7	0.154	0.382	0.590	0.331	0.00	0.5000	0.00	0.5893	0.75	0.2239
D12S354	124.6	17.9	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5875	-0.82	0.7939
D12S76	137.5	12.9	0.000	0.495	0.000	0.500	0.00	0.5000	0.00	0.5836	-0.75	0.7720
D12S324	148.3	10.8	0.024	0.413	0.000	0.500	0.00	0.5000	0.00	0.5850	-0.47	0.6789
D12S367	160.9	12.6	0.002	0.488	0.050	0.341	0.00	0.5000	0.00	0.5895	0.62	0.2630
D12S357	169.1	8.2	0.000	0.500	0.000	0.500	0.25	0.1408	0.30	0.1676	0.62	0.2623

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			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
<i>Chromosome 13</i>												
D13S292	11.4		0.000	0.500	0.000	0.500	0.11	0.2358	0.00	0.5854	-0.28	0.6045
D13S217	19.1	7.7	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5838	-0.29	0.6082
D13S219	30.7	11.6	0.206	0.297	0.403	0.258	0.33	0.1078	0.15	0.2638	0.76	0.2200
D13S168	46.9	16.2	0.142	0.348	0.000	0.500	0.50	0.0649	0.46	0.1060	0.39	0.3438
D13S162	59.7	12.8	0.503	0.291	0.424	0.299	0.54	0.0569	0.09	0.3371	0.54	0.2885
D13S154	77.1	17.4	0.172	0.342	0.021	0.434	0.22	0.1552	0.07	0.3602	1.16	0.1220
D13S174	86.9	9.8	0.446	0.302	0.942	0.296	0.03	0.3586	0.06	0.3788	1.26	0.1043
D13S173	95.9	9.0	0.051	0.429	0.076	0.398	0.01	0.4325	0.00	0.5813	0.53	0.2947
<i>Chromosome 14</i>												
D14S261	0.0		0.004	0.488	0.000	0.498	0.00	0.5000	0.00	0.5802	-1.57	1.6771
D14S64	16.3	16.3	0.000	0.500	0.000	0.500	0.00	0.5000	0.01	0.4863	-0.22	0.9384
D14S252	21.0	4.7	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5793	-0.78	1.3275
D14S75	36.3	15.3	0.001	0.492	0.000	0.500	0.00	0.5000	0.00	0.5882	-1.50	1.6579
D14S285	50.0	13.7	0.096	0.323	0.153	0.382	0.41	0.0839	0.14	0.2781	0.70	0.3433
D14S63	59.0	9.0	0.000	0.500	0.265	0.332	0.00	0.5000	0.02	0.4815	0.38	0.5228
D14S71	71.5	12.5	0.000	0.498	0.074	0.415	0.00	0.5000	0.01	0.5113	-0.08	0.8357
D14S67	86.3	14.8	1.161	0.219	0.000	0.500	0.52	0.0616	0.48	0.0981	1.05	0.2010
D14S81	98.8	12.5	0.763	0.245	0.997	0.240	0.82	0.0261	0.95	0.0283	1.81	0.0467
D14S267	112.6	13.8	0.011	0.449	0.085	0.343	0.13	0.2161	0.16	0.2572	0.65	0.3723
D14S292	124.2	11.6	0.000	0.500	0.000	0.500	0.28	0.1269	0.49	0.0954	0.27	0.5938
<i>Chromosome 15</i>												

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			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
D15S122	6.3		0.109	0.363	0.234	0.326	0.08	0.2694	0.01	0.5114	0.94	0.1249
D15S165	20.2	13.9	0.201	0.315	0.075	0.404	0.06	0.3068	0.00	0.5761	1.04	0.1066
D15S118	32.2	12.0	0.000	0.500	0.001	0.487	0.00	0.5000	0.00	0.5834	0.50	0.2358
D15S126	45.5	13.3	0.014	0.463	0.020	0.468	0.00	0.5000	0.00	0.5890	-0.17	0.4828
D15S153	62.1	16.6	0.088	0.397	0.343	0.393	0.00	0.5000	0.00	0.5462	-0.56	0.6380
D15S205	77.4	15.3	0.000	0.497	0.425	0.354	0.00	0.4947	0.01	0.4906	0.62	0.2014
D15S158	84.8	7.4	0.003	0.455	0.391	0.328	0.14	0.2116	0.04	0.4076	0.74	0.1702
D15S207	100.8	16.0	0.032	0.455	0.363	0.356	0.00	0.5000	0.00	0.5866	0.23	0.3261
D15S120	109.6	8.8	0.012	0.462	0.028	0.456	0.00	0.5000	0.00	0.5231	0.16	0.3546

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Marker	KcM from pter*	Distance from above	ILINK				SIBPAIR		SPLINK		GENEHUNTER	
			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
<i>Chromosome 16</i>												
D16S521	0.0		1.126	0.214	0.348	0.294	0.70	0.0366	0.68	0.0571	1.36	0.0880
D16S418	13.4	13.4	0.437	0.304	0.245	0.355	0.00	0.4547	0.02	0.4574	1.06	0.1423
D16S405	27.0	13.6	0.256	0.317	0.582	0.287	0.14	0.2090	0.08	0.3410	1.41	0.0796
D16S499	33.3	6.3	0.519	0.263	0.590	0.257	0.55	0.0553	0.94	0.0292	1.92	0.0294
D16S420	43.2	9.9	0.099	0.369	0.000	0.500	0.22	0.1552	0.48	0.0996	1.01	0.1544
D16S401	45.5	2.3	0.061	0.409	0.067	0.423	0.18	0.1822	0.30	0.1635	0.77	0.2183
D16S409	56.2	13.0	0.001	0.421	0.002	0.481	0.27	0.1324	0.17	0.2475	1.68	0.0481
D16S3136	60.0	3.8	1.345	0.197	0.866	0.248	1.02	0.0150	0.88	0.0340	2.09	0.0200
D16S770	62.4	2.4	0.401	0.258	0.121	0.405	0.92	0.0201	0.16	0.2586	2.54	0.0068
D16S2623	63.7	1.3	1.511	0.184	0.700	0.291	1.21	0.0091	1.12	0.0186	2.69	0.0046
D16S419	65.6	1.9	2.185	0.167	0.378	0.296	1.91	0.0015	1.67	0.0048	2.83	0.0031
D16S415	65.6	0.0	1.591	0.193	1.045	0.267	1.10	0.0121	1.38	0.0096	2.62	0.0055
D16S3034	66.9	1.3	0.549	0.242	0.575	0.280	0.50	0.0651	0.50	0.0933	2.89	0.0027
D16S771	68.3	1.4	1.359	0.210	0.942	0.259	1.35	0.0063	1.30	0.0116	2.81	0.0033
D16S3032	71.4	3.1	1.585	0.153	2.306	0.120	1.79	0.0020	0.76	0.0465	2.90	0.0026
D16S3255	71.4	0.0	0.287	0.281	0.020	0.399	0.56	0.0547	0.14	0.2761	3.02	0.0018
D16S408	72.6	1.2	1.538	0.187	0.850	0.235	1.87	0.0017	1.00	0.0251	2.83	0.0031
D16S3039	72.6	0.0	1.888	0.188	0.941	0.272	0.86	0.0230	0.77	0.0459	2.83	0.0031
D16S3110	72.6	0.0	2.504	0.146	1.228	0.225	2.62	0.0003	1.95	0.0024	2.92	0.0025
D16S3071	73.5	0.9	0.768	0.215	0.879	0.225	2.05	0.0011	1.55	0.0065	2.70	0.0045
D16S3057	75.5	2.0	0.657	0.258	0.336	0.320	0.68	0.0384	0.34	0.1469	2.23	0.0145

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			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
D16S3094	77.4	1.9	0.080	0.393	0.569	0.287	0.02	0.3739	0.00	0.5300	2.00	0.0243
D16S514	80.0	2.6	1.150	0.227	0.305	0.294	1.16	0.0105	1.19	0.0157	2.50	0.0075
D16S3050	83.1	3.1	1.699	0.183	0.711	0.264	2.27	0.0006	1.90	0.0028	2.43	0.0089
D16S512	88.1	5.0	0.017	0.462	0.632	0.303	0.31	0.1171	0.06	0.3704	1.33	0.0928
D16S518	92.6	4.5	0.029	0.365	0.136	0.367	0.50	0.0654	0.32	0.1572	1.22	0.1115
D16S507	103.1	10.5	0.088	0.358	0.728	0.272	0.36	0.0985	0.28	0.1762	1.18	0.1176
D16S402	109.9	6.8	0.215	0.315	0.695	0.253	0.71	0.0348	1.18	0.0157	1.68	0.0475
D16S520	123.3	13.4	0.025	0.365	0.467	0.274	0.77	0.0296	0.45	0.1066	1.28	0.0999
D16S413	126.5	3.2	0.266	0.302	0.543	0.256	0.51	0.0632	0.54	0.0840	1.27	0.1014
<i>Chromosome 17</i>												
D17S849	0.6		0.434	0.283	0.670	0.283	0.24	0.1471	0.31	0.1603	0.86	0.1925
D17S796	14.8	14.2	0.328	0.299	0.441	0.322	0.31	0.1179	0.31	0.1593	1.44	0.0750
D17S799	32.8	18.0	0.000	0.500	0.003	0.470	0.00	0.5000	0.00	0.5881	0.56	0.2827
D17S783	49.5	16.7	0.017	0.469	0.097	0.411	0.00	0.5000	0.00	0.5881	-0.23	0.5873
D17S800	62.9	13.4	0.000	0.500	0.099	0.362	0.00	0.5000	0.00	0.5841	0.58	0.2748
D17S787	75.7	12.8	0.000	0.500	0.178	0.349	0.00	0.4716	0.20	0.2268	0.85	0.1938
D17S1786	90.2	14.5	0.000	0.500	0.000	0.500	0.23	0.1496	0.23	0.2025	1.59	0.0573
D17S785	104.7	14.5	0.000	0.500	0.026	0.315	0.14	0.2104	0.21	0.2189	2.81	0.0034
D17S802	108.2	3.5	0.081	0.385	1.341	0.188	0.93	0.0191	0.55	0.0809	2.63	0.0056
D17S836	114.0	5.8	0.000	0.500	0.402	0.231	0.06	0.3035	0.06	0.3680	1.82	0.0365
D17S784	117.7	3.7	0.000	0.500	0.720	0.202	0.36	0.0996	0.21	0.2181	1.93	0.0284
D17S928	128.7	11.0	0.005	0.454	0.226	0.275	0.36	0.0989	0.27	0.1791	1.49	0.0695

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			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
<i>Chromosome 18</i>												
D18S59	0.1		0.067	0.411	0.058	0.445	0.00	0.5000	0.00	0.5928	-0.38	0.6433
D18S452	17.7	17.6	0.000	0.500	0.020	0.413	0.00	0.5000	0.00	0.5787	-0.30	0.6128
D18S464	32.4	14.7	0.002	0.487	0.065	0.356	0.00	0.5000	0.00	0.5789	-0.16	0.5600
D18S453	42.7	10.3	0.020	0.441	0.000	0.500	0.10	0.2503	0.03	0.4500	0.25	0.3938
D18S56	56.7	14.0	0.264	0.341	0.496	0.270	0.12	0.2306	0.04	0.4064	1.36	0.0874
D18S474	71.3	14.6	0.637	0.268	1.054	0.232	0.90	0.0208	0.78	0.0438	1.30	0.0965
D18S64	83.0	11.7	0.000	0.498	0.000	0.500	0.00	0.5000	0.00	0.5853	-0.10	0.5327
D18S483	96.9	13.9	0.069	0.408	0.678	0.289	0.00	0.4779	0.00	0.5882	-0.12	0.5414
D18S488	104.6	7.7	0.214	0.360	1.022	0.289	0.01	0.4180	0.01	0.4969	0.26	0.3918
D18S461	118.0	13.4	0.041	0.393	0.002	0.491	0.00	0.5000	0.00	0.5869	-0.26	0.5980
<i>Chromosome 19</i>												
D19S424	10.8		0.046	0.347	0.121	0.308	0.47	0.0698	0.55	0.0797	1.21	0.1131
D19S216	19.1	8.3	0.000	0.500	0.004	0.479	0.00	0.4642	0.09	0.3326	0.74	0.2254
D19S221	35.5	16.4	0.000	0.500	0.045	0.346	0.00	0.5000	0.03	0.4516	1.24	0.1068
D19S215	38.0	2.5	0.001	0.480	0.110	0.348	0.04	0.3414	0.13	0.2877	1.59	0.0570
D19S208	58.7	20.7	0.000	0.498	0.000	0.500	0.01	0.4293	0.01	0.5137	0.99	0.1585
D19S412	69.9	11.2	0.534	0.265	0.596	0.228	0.65	0.0416	0.68	0.0585	1.55	0.0613
D19S418	97.5	27.6	0.514	0.221	0.000	0.500	1.18	0.0100	0.79	0.0427	1.50	0.0678
D19S210	104.9	7.4	0.004	0.327	0.051	0.381	0.42	0.0816	0.39	0.1259	1.32	0.0934
<i>Chromosome 20</i>												
D20S117	2.9		0.512	0.312	0.000	0.500	0.10	0.2459	0.11	0.3084	-0.03	0.5050

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			Recessive		Dominant		lod	p value	lod	p value	NPL	p value
			lod	$\theta$	lod	$\theta$						
D20S199	6.2	3.3	0.909	0.263	0.000	0.500	0.39	0.0909	0.37	0.1348	-0.16	0.5586
D20S906	7.5	1.3	1.867	0.187	0.000	0.500	0.96	0.0178	0.62	0.0667	0.09	0.4591
D20S842	8.8	1.3	0.769	0.268	0.000	0.500	0.22	0.1564	0.52	0.0902	-0.19	0.5694
D20S193	9.4	0.6	0.515	0.284	0.000	0.500	0.16	0.1945	0.12	0.3021	0.00	0.4936
D20S116	11.0	1.6	1.301	0.207	0.000	0.500	0.65	0.0413	0.75	0.0473	0.28	0.3824
D20S849	13.7	2.7	0.902	0.244	0.000	0.500	0.01	0.4003	0.11	0.3018	0.28	0.3845
D20S835	14.8	1.1	0.392	0.329	0.008	0.469	0.15	0.2025	0.32	0.1539	0.10	0.4518
D20S882	14.8	0.0	1.074	0.228	0.540	0.262	1.41	0.0054	1.54	0.0065	0.44	0.3214
D20S95	16.4	1.6	1.765	0.207	0.010	0.427	1.36	0.0061	1.34	0.0108	0.85	0.1918
D20S916	16.9	0.5	0.852	0.248	0.000	0.500	0.41	0.0854	0.56	0.0792	0.45	0.3199
D20S905	16.9	0.0	0.893	0.246	0.000	0.500	0.28	0.1272	0.30	0.1668	0.45	0.3199
D20S194	18.0	1.1	1.849	0.218	0.030	0.430	0.42	0.0819	0.12	0.2975	0.79	0.2101
D20S892	18.5	0.5	0.596	0.283	0.000	0.500	0.06	0.3011	0.24	0.2013	0.72	0.2304
D20S900	20.9	2.4	2.258	0.151	0.000	0.500	0.94	0.0189	0.72	0.0508	0.79	0.2086
D20S115	20.9	0.0	0.341	0.309	0.311	0.344	0.00	0.5000	0.00	0.5797	0.95	0.1661
D20S851	23.8	2.9	2.619	0.163	0.050	0.328	1.06	0.0135	0.86	0.0356	1.55	0.0604
D20S917	25.0	1.2	1.127	0.246	0.000	0.500	0.41	0.0855	0.47	0.1039	1.65	0.0491
D20S894	30.6	5.6	0.238	0.353	0.005	0.482	0.00	0.5000	0.00	0.5936	1.32	0.0920
D20S189	32.4	1.8	0.890	0.237	0.005	0.450	0.17	0.1848	0.33	0.1529	1.63	0.0516
D20S186	33.2	0.8	0.818	0.258	0.018	0.422	0.09	0.2548	0.32	0.1577	1.38	0.0824
D20S898	35.8	2.6	0.218	0.348	0.130	0.393	0.00	0.5000	0.00	0.5895	1.14	0.1242
D20S104	37.6	1.8	0.351	0.314	0.258	0.360	0.00	0.4415	0.01	0.5041	0.67	0.2464

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			lod	$\theta$	lod	$\theta$						
D20S195	50.2	12.6	0.056	0.426	0.169	0.364	0.00	0.5000	0.00	0.5904	0.87	0.1869
D20S119	61.0	10.8	0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5863	0.54	0.2867
D20S196	74.5	13.5	0.001	0.490	0.067	0.387	0.00	0.4645	0.02	0.4763	0.73	0.2274
D20S102	85.8	11.3	0.001	0.493	0.000	0.500	0.05	0.3076	0.05	0.3863	0.22	0.4054
D20S171	94.4	8.6	0.007	0.482	0.329	0.291	0.25	0.1429	0.04	0.4177	0.40	0.3386
<i>Chromosome 21</i>												
D21S1256	8.6		0.000	0.500	0.000	0.500	0.00	0.5000	0.00	0.5829	-0.33	0.6246
D21S1253	24.1	15.5	0.018	0.425	0.005	0.482	0.00	0.5000	0.01	0.5077	-0.21	0.5805
D21S1252	38.7	14.6	0.240	0.322	0.472	0.329	0.37	0.0948	0.22	0.2101	1.13	0.1274
D21S1260	51.6	12.9	0.002	0.390	0.000	0.500	0.04	0.3340	0.02	0.4809	0.72	0.2325
<i>Chromosome 22</i>												
D22S420	0.0		0.000	0.500	0.068	0.431	0.00	0.5000	0.00	0.5680	0.28	0.3840
D22S315	16.2	16.2	0.087	0.332	0.122	0.332	0.14	0.2150	0.22	0.2153	1.01	0.1553
D22S273	24.3	8.1	0.000	0.500	0.173	0.395	0.00	0.5000	0.00	0.5873	0.21	0.4118
D22S283	33.4	9.1	0.015	0.469	0.155	0.375	0.00	0.5000	0.00	0.5913	0.16	0.4306
D22S274	45.5	12.1	0.001	0.490	0.133	0.359	0.00	0.5000	0.00	0.5870	1.04	0.1480

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			lod	$\theta$	lod	$\theta$						
<i>Chromosome X</i>												
DXS1060	10.1		0.049	0.422	0.700	0.344	0.00	0.4610	0.02	0.3908	0.11	0.4491
DXS987	25.5	15.4	0.118	0.308	0.071	0.406	0.34	0.1065	0.24	0.1474	0.07	0.4670
DXS989	40.6	15.1	0.000	0.499	0.061	0.440	0.08	0.2688	0.01	0.3977	-0.14	0.5576
DXS1068	56.2	15.6	0.263	0.313	0.016	0.457	0.02	0.3807	0.02	0.3857	0.07	0.4679
DXS1055	77.9	21.7	0.000	0.495	0.003	0.479	0.00	0.5000	0.00	0.4995	0.39	0.3282
DXS1204	86.5	8.6	0.354	0.263	0.932	0.308	0.13	0.2195	0.18	0.1802	1.14	0.1022
DXS990	104.9	18.4	0.226	0.279	0.394	0.327	0.02	0.3924	0.40	0.0134	1.49	0.0486
DXS1059	121.0	16.1	0.249	0.279	0.316	0.384	0.08	0.2685	0.05	0.3200	0.93	0.1498
DXS1047	150.3	29.3	0.000	0.500	0.013	0.468	0.00	0.5000	0.00	0.4450	-0.47	0.6994
DXS1227	164.7	14.4	0.086	0.373	0.000	0.495	0.00	0.5000	0.00	0.4995	-0.28	0.6209
DXS1193	187.7	23.0	0.331	0.243	0.370	0.261	0.72	0.0344	0.51	0.0629	0.47	0.2991

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