

Supplementary Table S1. Karyotype of each single cell of blastocyst.

Cell	VS	Embryo	Sex	Cytoband
B01_001	0.1219	B01	XY	46,XY,-19(p11qter,35M)x1
B01_002	0.2592	B01	OY	45,Y,-19(p11qter,35M)x1,-Xx1
B01_003	0.1233	B01	XY	46,XY,-19(p11qter,35M)x1
B01_004	0.2112	B01	XY	46,+11(q13.4qter,63M)x3,+19(p11qter,35M)x3
B01_005	0.2392	B01	XY	46,XY,-19(p11qter,35M)x1
B01_006	0.1238	B01	XY	46,XY,-19(p11qter,35M)x1
B01_007	0.1462	B01	XY	46,-1(pterp32.3,51M)x1,-1(p11.2qter,128M)x1
B01_008	0.1981	B01	XY	46,XY,-19(p11qter,35M)x1
B01_009	0.2102	B01	XY	46,XY,-19(p11qter,35M)x1
B01_010	0.1438	B01	XY	47,XY,+4(p14p11,15M)x3,- 14(pterq24.2,73M)x1,+14(q24.2qter,35M)x3,- 19(p11qter,35M)x1,+22x3
B01_011	0.1266	B01	XY	46,XY,-19(p11qter,35M)x1
B01_012	0.1245	B01	XY	46,XY,-19(p11qter,35M)x1
B01_013	0.2028	B01	XY	46,XY,-1(p11.2qter,128M)x1
B01_014	0.269	B01	XY	46,XY,-19(p11qter,35M)x1
B01_015	0.2163	B01	XY	46,XY
B01_016	0.1504	B01	XY	46,XY,+1(p11.2qter,128M)x3,- 11(q13.4qter,63M)x1
B01_017	0.1181	B01	XY	46,XY,-11(q13.4qter,63M)x1
B01_018	0.1552	B01	XY	46,XY,-19(p11qter,35M)x1
B01_019	0.1219	B01	XY	46,XY,-11(q13.4qter,63M)x1
B01_020	0.2715	B01	XY	46,XY,-19(p11qter,35M)x1
B01_021	0.2568	B01	XXY	47,XXY,-19(p11qter,35M)x1,+Xx3
B01_022	0.1305	B01	XY	47,XY,-3x1,+4x3,+7x3,+9x3,-10x1,- 14x1,+17x3,+18x3,-19(p11qter,35M)x1,-22x1
B01_023	0.2492	B01	XY	46,XY,-1(p11.2qter,128M)x1
B01_024	0.1183	B01	XY	46,XY,-19(p11qter,35M)x1
B01_025	0.1302	B01	XY	46,XY,-19(p11qter,35M)x1
B01_026	0.1729	B01	XY	46,XY,-19(p11qter,35M)x1

B01_027	0.1278	B01	XY	46,XY,-1(pterp32.3,51M)x1,- 1(p11.2qter,128M)x1
B01_028	0.2726	B01	XY	46,XY,- 11(q13.4qter,63M)x1,+19(p11qter,35M)x3
B01_029	0.1372	B01	XY	46,XY,-19(p11qter,35M)x1
B01_030	0.2867	B01	XY	46,XY,-19(p11qter,35M)x1
B01_031	0.2524	B01	XY	46,XY,-19(p11qter,35M)x1
B01_032	0.2126	B01	XY	46,XY,-1(pterp32.3,51M)x1,- 1(p11.2qter,128M)x1
B01_033	0.1227	B01	XY	46,XY,-19(p11qter,35M)x1
B01_034	0.1192	B01	XY	46,XY,-19(p11qter,35M)x1
B01_035	0.2429	B01	XY	46,XY,+1(pterp32.3,51M)x3,- 1(p11.2qter,128M)x1
B01_036	0.1157	B01	XY	46,XY,-19(p11qter,35M)x1
B01_037	0.1204	B01	XY	46,XY,-19(p11qter,35M)x1
B01_038	0.2286	B01	XY	46,XY,-1(p11.2qter,128M)x1
B01_039	0.1374	B01	XY	46,XY,-19(p11qter,35M)x1
B01_040	0.1164	B01	XY	46,XY,-19(p11qter,35M)x1
B01_041	0.1345	B01	XY	46,XY,-19(p11qter,35M)x1
B01_042	0.1302	B01	XY	43,XY,-8x1,-10x1,-13x1
B01_043	0.2409	B01	XY	46,XY,-11(q13.4qter,62M)x1
B01_044	0.1227	B01	XY	51,XY,+1x3,+2x3,+4x3,+9x3,+16x3,- 19(p11qter,35M)x1
B01_045	0.1204	B01	XY	46,XY,-19(p11qter,35M)x1
B01_046	0.1225	B01	XY	51,XY,+1x3,+2x3,+4x3,+9x3,- 12(pterp12.2,20M)x1,+16x3
B01_047	0.1156	B01	XY	46,XY,+8(q11.21qter,95M)x3
B01_048	0.1192	B01	XY	46,XY
B01_049	0.1201	B01	XY	46,XY,-11(q13.4qter,62M)x1
B01_050	0.1275	B01	XY	46,XY,+1(p11.2qter,128M)x3,+15(q24.3qter,25M) x3
B01_051	0.1225	B01	XY	46,XY,-4(q13.3qter,116M)x1,-

				5(q12.3qter,118M)x1
B01_052	0.1191	B01	XY	46,XY,-19(p11qter,35M)x1
B01_053	0.1176	B01	XY	46,XY,+5(q23.3qter,53M)x3,- 8(q11.21qter,95M)x1
B01_054	0.1255	B01	XY	46,XY,-19(p11qter,35M)x1
B01_055	0.1194	B01	XY	46,XY
B01_056	0.1164	B01	XY	46,XY,-19(p11qter,35M)x1
B02_001	0.1217	B02	XY	46,XY
B02_002	0.1609	B02	XY	46,XY,-2(pterp21,45M)x1
B02_003	0.1229	B02	XY	46,XY
B02_004	0.2698	B02	XY	46,XY
B02_005	0.2723	B02	XY	46,XY
B02_006	0.2381	B02	XY	46,XY,-2(pterp21,45M)x1
B02_007	0.141	B02	XY	53,XY,+2(pterp21,45M)x3,+8x3,+10x3,+12x3,+1 3x3,+14x3,+15x3,+16x3,-17x1,+21x3
B02_008	0.1268	B02	XY	46,XY
B02_009	0.2457	B02	XY	46,XY
B02_010	0.2713	B02	XY	46,XY
B02_011	0.2777	B02	XY	46,XY
B02_012	0.1187	B02	XY	46,XY
B02_013	0.2861	B02	XY	46,XY
B02_014	0.1995	B02	XY	46,XY,-2(pterp21,45M)x1
B02_015	0.2723	B02	XY	46,XY
B02_016	0.1258	B02	XY	46,XY
B02_017	0.175	B02	XY	45,XY,-2(pterp21,45M)x1,-10x1
B02_018	0.1219	B02	XY	46,XY
B02_019	0.2087	B02	XY	47,XY,-2(pterp21,45M)x1,+10x3
B02_020	0.1268	B02	XY	46,XY
B02_021	0.2767	B02	XY	46,XY
B02_022	0.1276	B02	XY	46,XY
B02_023	0.2312	B02	XY	49,XY,+1x3,+3x3,+12x3
B02_024	0.1226	B02	XY	46,XY

B02_025	0.2354	B02	XY	46,XY
B02_026	0.123	B02	XY	46,XY
B02_027	0.1169	B02	XY	46,XY
B02_028	0.1231	B02	XY	46,XY
B02_029	0.1227	B02	XY	46,XY
B02_030	0.1707	B02	XY	45,XY,-2(pterp21,45M)x1,-10x1
B02_031	0.2776	B02	XY	46,XY
B02_032	0.1183	B02	XY	46,XY
B02_033	0.1138	B02	XY	46,XY
B02_034	0.1193	B02	XY	46,XY,-2(pterp21,45M)x1
B02_035	0.143	B02	XY	46,XY
B02_036	0.1768	B02	XY	46,XY
B02_037	0.1256	B02	XY	46,XY
B02_038	0.1172	B02	XY	46,XY
B02_039	0.1942	B02	XY	46,XY
B02_040	0.1197	B02	XY	46,XY
B02_041	0.2652	B02	XY	46,XY
B02_042	0.1265	B02	XY	46,XY
B02_043	0.1207	B02	XY	46,XY
B02_044	0.2461	B02	XY	46,XY
B02_045	0.1309	B02	XY	46,XY
B02_046	0.2588	B02	XY	46,XY
B02_047	0.2345	B02	XY	46,XY
B02_048	0.2299	B02	XY	46,XY
B02_049	0.1471	B02	XY	46,XY
B02_050	0.124	B02	XY	46,XY
B02_051	0.1265	B02	XY	45,XY,-4x1
B02_052	0.1175	B02	XY	46,XY
B02_053	0.2744	B02	XY	46,XY
B02_054	0.276	B02	XY	46,XY
B02_055	0.2699	B02	XY	46,XY
B02_056	0.1343	B02	XY	45,XY,-4x1

B02_057	0.241	B02	XY	46,XY
B02_058	0.1232	B02	XY	46,XY
B02_059	0.2112	B02	XY	46,XY
B02_060	0.2773	B02	XY	45,XY,-4x1
B02_061	0.1414	B02	XY	47,XY,+4x3
B02_062	0.1337	B02	XY	46,XY
B02_063	0.1588	B02	XY	46,XY
B02_064	0.1609	B02	XY	46,XY
B02_065	0.1428	B02	XY	46,XY
B02_066	0.1319	B02	XY	46,XY
B02_067	0.1211	B02	XY	46,XY
B03_001	0.2762	B03	XX	46,XX,-1(pterp31.3,66M)x1
B03_002	0.2021	B03	XX	46,XX
B03_003	0.2574	B03	XX	46,XX,-3(q12.1qter,100M)x1
B03_004	0.2414	B03	XX	46,XX
B03_005	0.1255	B03	XX	46,XX,-9(pterp24.1,9M)x1,+9(p24.1p22.3,7M)x3
B03_006	0.1409	B03	XX	46,XX
B03_007	0.1272	B03	XX	46,XX
B03_008	0.1319	B03	XX	46,XX,-3(q26.1qter,38M)x1,-9(q31.1qter,35M)x1
B03_009	0.1365	B03	XX	46,XX
B03_010	0.2756	B03	XX	46,XX
B03_011	0.1324	B03	XX	46,XX
B03_012	0.1343	B03	XX	46,XX
B03_013	0.2664	B03	XX	46,XX
B03_014	0.222	B03	XX	46,XX
B03_015	0.1314	B03	XX	46,XX,-3(q26.1qter,38M)x1
B03_016	0.1293	B03	XX	46,XX
B03_017	0.1244	B03	XX	46,XX
B03_018	0.1383	B03	XX	46,XX
B03_019	0.1203	B03	XX	46,XX,-3(q26.1qter,38M)x1
B03_020	0.3002	B03	XX	45,XX,-4x1
B03_021	0.14	B03	XX	46,XX

B03_022	0.2183	B03	XX	46,XX
B03_023	0.1361	B03	XX	46,XX,+1(pterp31.3,66M)x3
B03_024	0.2542	B03	XX	46,XX
B03_025	0.2376	B03	XX	46,XX,-3(q26.1qter,38M)x1
B03_026	0.1645	B03	XX	46,XX
B03_027	0.2537	B03	XX	45,XX,-3x1
B03_028	0.2868	B03	XX	46,XX
B03_029	0.1295	B03	XX	46,XX,-3(q26.1qter,38M)x1
B03_030	0.1375	B03	XX	46,XX
B03_031	0.2149	B03	XX	46,XX,-15(q15.1qter,60M)x1
B03_032	0.1279	B03	XX	46,XX,+15(q15.1qter,60M)x3
B03_033	0.1656	B03	XX	46,XX
B03_034	0.1795	B03	XX	46,XX
B03_035	0.2068	B03	XX	46,XX
B03_036	0.1582	B03	XX	46,XX,-1(pterp31.3,66M)x1
B03_037	0.2579	B03	XX	47,XX,+5(q31.3qter,40M)x3,+7x3
B03_038	0.2755	B03	XX	47,XX,+8x3
B03_039	0.2563	B03	XX	46,XX,+3(q12.1qter,100M)x3
B03_040	0.1661	B03	XX	46,XX
B03_041	0.1325	B03	XX	46,XX
B03_042	0.1251	B03	XX	46,XX
B03_043	0.1269	B03	XX	46,XX
B03_044	0.2434	B03	XX	46,XX,-15(q15.1qter,60M)x1
B03_045	0.2749	B03	XX	46,XX
B03_046	0.2497	B03	XX	45,XX,-1(q24.2qter,82M)x1,-22x1
B03_047	0.2518	B03	XX	45,XX,-13x1
B03_048	0.1324	B03	XX	46,XX
B03_049	0.1568	B03	XX	46,XX
B03_050	0.2719	B03	XX	46,XX,-X(q26.2,qter,26M)x1
B03_051	0.2825	B03	XX	46,XX
B03_052	0.2734	B03	XX	46,XX
B03_053	0.2976	B03	XX	46,XX

B03_054	0.1444	B03	XX	46,XX
B03_055	0.2532	B03	XX	46,XX
B03_056	0.2833	B03	XX	47,XX,+2(q35qter,26M)x3,+19x3
B03_057	0.2237	B03	XX	46,XX
B03_058	0.2017	B03	XX	46,XX
B03_059	0.2642	B03	XX	46,XX,+3(pterq26.1,161M)x3,- 3(q26.1qter,38M)x1,+9(q31.1qter,35M)x3
B03_060	0.2444	B03	XX	46,XX
B03_061	0.1152	B03	XX	46,XX
B03_062	0.143	B03	XX	46,XX
B03_063	0.2833	B03	XX	46,XX
B03_064	0.259	B03	XX	46,XX
B03_065	0.2194	B03	XX	46,XX
B03_066	0.1542	B03	XX	46,XX
B03_067	0.1529	B03	XX	46,XX
B03_068	0.1494	B03	XX	46,XX
B03_069	0.1365	B03	XX	46,XX
B03_070	0.1271	B03	XX	46,XX
B03_071	0.2883	B03	XX	47,XX,-3(q26.1qter,38M)x1,+19x3
B03_072	0.19	B03	XX	46,XX
B04_001	0.1681	B04	XX	46,XX
B04_002	0.1632	B04	XX	46,XX
B04_003	0.2398	B04	XX	47,XX,+16x3
B04_004	0.2839	B04	XX	46,XX
B04_005	0.157	B04	XX	46,XX
B04_006	0.2945	B04	XX	46,XX,-13(q22.1qter,42M)x1
B04_007	0.2186	B04	XX	46,XX
B04_008	0.1962	B04	XX	46,XX
B04_009	0.1599	B04	XX	46,XX
B04_010	0.1716	B04	XX	46,XX
B04_011	0.1565	B04	XX	45,XX,-13x1
B04_012	0.2026	B04	XX	46,XX

B04_013	0.2768	B04	XX	45,XX,-10x1
B04_014	0.153	B04	XX	46,XX
B04_015	0.1847	B04	XX	46,XX
B04_016	0.2808	B04	XX	46,XX,-13(q22.1qter,42M)x1
B04_017	0.1937	B04	XO	45,XO,-3(q13.13q23,29M)x1,- 3(q26.2q27.3,18M)x1,-4(pterq32.1,157M)x1,- 11(pterp15.3,12M)x1,-12(q21.1q21.31,12M)x1,- 17(q22qter,27M)x1,-18(q21.1q21.32,12M)x1,- Xx1
B04_018	0.1558	B04	XX	46,XX,+13(q22.1qter,42M)x3
B04_019	0.2094	B04	XX	46,XX
B04_020	0.2531	B04	XX	46,XX,-13(q22.1qter,42M)x1
B04_021	0.1502	B04	XX	46,XX
B04_022	0.2777	B04	XX	46,XX
B04_023	0.2588	B04	XX	46,XX
B04_024	0.1614	B04	XX	46,XX
B04_025	0.1686	B04	XX	46,XX
B04_026	0.1783	B04	XX	46,XX
B04_027	0.1928	B04	XX	46,XX
B04_028	0.1953	B04	XX	46,XX
B04_029	0.1585	B04	XX	46,XX
B04_030	0.1692	B04	XX	46,XX
B04_031	0.1754	B04	XX	46,XX
B04_032	0.1633	B04	XX	46,XX
B04_033	0.1917	B04	XX	46,XX
B04_034	0.1683	B04	XX	46,XX
B04_035	0.2713	B04	XX	46,XX
B04_036	0.2687	B04	XX	46,XX,-13(q22.1qter,42M)x1
B04_037	0.187	B04	XX	46,XX
B04_038	0.1987	B04	XX	46,XX
B04_039	0.3279	B04	XX	46,XX,-13(q22.1qter,42M)x1
B04_040	0.2018	B04	XX	46,XX

B04_041	0.1827	B04	XX	46,XX
B04_042	0.169	B04	XX	46,XX
B04_043	0.1721	B04	XX	46,XX
B04_044	0.1974	B04	XX	46,XX
B04_045	0.2143	B04	XX	46,XX
B04_046	0.1835	B04	XX	47,XX,+16x3
B04_047	0.3107	B04	XX	46,XX
B04_048	0.1929	B04	XX	46,XX
B04_049	0.2874	B04	XX	46,XX
B04_050	0.2208	B04	XX	46,XX
B04_051	0.3174	B04	XX	46,XX
B05_001	0.1692	B05	XY	45,XY,-13x1
B05_002	0.1901	B05	XY	45,XY,-13x1
B05_003	0.2794	B05	XY	45,XY,-13x1
B05_004	0.2822	B05	XY	45,XY,-13x1
B05_005	0.2566	B05	XY	45,XY,-13x1
B05_006	0.1453	B05	XY	45,XY,-13x1
B05_007	0.2843	B05	XY	45,XY,-13x1
B05_008	0.1953	B05	XY	45,XY,-9(p12qter,100M)x1,-13x1
B05_009	0.1681	B05	XY	45,XY,-13x1
B05_010	0.1432	B05	XY	45,XY,-13x1
B05_011	0.2544	B05	XY	45,XY,-13x1
B05_012	0.1646	B05	XY	45,XY,-13x1
B05_013	0.1818	B05	XY	45,XY,-13x1
B05_014	0.1513	B05	XY	45,XY,-13x1
B05_015	0.2684	B05	XY	45,XY,-13x1
B05_016	0.1645	B05	XY	45,XY,-13x1
B05_017	0.2119	B05	XY	45,XY,-13x1
B05_018	0.1314	B05	XY	45,XY,-6(q15qter,83M)x1,-13x1
B05_019	0.2531	B05	XY	45,XY,-13x1
B05_020	0.1482	B05	XY	45,XY,-13x1
B05_021	0.1345	B05	XY	45,XY,-13x1

B05_022	0.2677	B05	XY	45,XY,- 12(q21.32q23.1,11M)x1,+12(q23.1qter,35M)x3,- 13x1,-14(q32.12qter,15M)x1
B05_023	0.171	B05	XY	45,XY,-13x1
B05_024	0.1347	B05	XY	45,XY,-13x1
B05_025	0.1689	B05	XY	45,XY,-13x1
B05_026	0.2704	B05	XY	45,XY,-13x1
B05_027	0.1537	B05	XY	45,XY,-12(q23.1qter,35M)x1,- 13x1,+14(q32.12qter,16M)x3,- X(pterp11.1,61M)x1
B05_028	0.2019	B05	XY	45,XY,-13x1
B05_029	0.3048	B05	XY	45,XY,-13x1
B05_030	0.2729	B05	XY	45,XY,-13x1
B05_031	0.2072	B05	XY	44,XY,-12x1,-13x1
B05_032	0.1533	B05	XY	45,XY,-13x1
B05_033	0.2078	B05	XY	45,XY,-13x1
B05_034	0.2823	B05	XY	45,XY,-13x1
B05_035	0.1524	B05	XY	45,XY,-13x1
B05_036	0.1649	B05	XY	45,XY,-13x1
B05_037	0.1361	B05	XY	45,XY,-13x1
B05_038	0.1765	B05	XY	45,XY,+11(q22.1qter,38M)x3,-13x1
B05_039	0.1791	B05	XY	45,XY,-13x1
B05_040	0.142	B05	XY	45,XY,-9(p12qter,100M)x1,-13x1
B05_041	0.2319	B05	XY	45,XY,-13x1
B05_042	0.224	B05	XY	45,XY,-13x1
B05_043	0.1436	B05	XY	45,XY,-13x1
B05_044	0.2347	B05	XY	45,XY,+1(p21.3q11,29M)x3,+9(pterp21.3,25M)x 3,+12(p13.1q11,22M)x3,- 13x1,+18(p11.21q12.1,17M)x3
B05_045	0.2346	B05	XY	46,XY,+1x3,-13x1
B05_046	0.1852	B05	XY	45,XY,-9(p12qter,100M)x1,-13x1
B05_047	0.1794	B05	XY	45,XY,-13x1

B05_048	0.165	B05	XY	45,XY,-2(q31.1qter,72M)x1,- 11(q13.3qter,68M)x1,-13x1
B05_049	0.1656	B05	XY	45,XY,-13x1
B05_050	0.1959	B05	XY	46,XY,+1x3,-13x1
B05_051	0.3266	B05	XY	45,XY,-13x1
B05_052	0.26	B05	XY	45,XY,-13x1
B05_053	0.1789	B05	XY	45,XY,-13x1
B05_054	0.213	B05	XY	45,XY,-13x1
B05_055	0.1548	B05	XY	46,XY,+1x3,-13x1
B05_056	0.2003	B05	XY	45,XY,-9(p12qter,100M)x1,-13x1
B05_057	0.2764	B05	XY	45,XY,-9(p12qter,100M)x1,-13x1
B05_058	0.172	B05	XY	45,XY,-9(p12qter,100M)x1,-13x1
B05_059	0.1299	B05	XY	45,XY,-13x1
B05_060	0.2093	B05	XY	45,XY,-13x1
B05_061	0.1752	B05	XY	45,XY,-12(q23.1qter,35M)x1,-13x1,- 14(q32.12qter,15M)x1,-X(pterp11.1,61M)x1
B05_062	0.1955	B05	XY	45,XY,-13x1
B05_063	0.1771	B05	XY	45,XY,-13x1
B05_064	0.1399	B05	XY	45,XY,-6(q15qter,83M)x1,-13x1
B05_065	0.1787	B05	XY	45,XY,-13x1
B05_066	0.161	B05	XY	45,XY,-13x1
B05_067	0.2334	B05	XY	45,XY,-13x1
B05_068	0.1608	B05	XY	45,XY,-13x1
B05_069	0.1635	B05	XY	45,XY,-13x1
B05_070	0.1625	B05	XY	45,XY,-13x1
B05_071	0.128	B05	XY	45,XY,-13x1
B05_072	0.1788	B05	XY	45,XY,-13x1
B05_073	0.2751	B05	XY	45,XY,+2(q22.1q33.1,59M)x3,-13x1
B06_001	0.2432	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_002	0.132	B06	XXY	47,XXY,+Xx2
B06_003	0.1281	B06	XY	46,XY
B06_004	0.1214	B06	XY	46,XY

B06_005	0.2285	B06	XY	46,XY
B06_006	0.1211	B06	XY	46,XY
B06_007	0.2297	B06	XY	46,XY
B06_008	0.1322	B06	XY	46,XY,+8(q21.13q22.1,29M)x3,- 8(q22.1qter,51M)x1
B06_009	0.1246	B06	XY	46,XY
B06_010	0.2409	B06	XY	46,XY
B06_011	0.238	B06	XY	46,XY
B06_012	0.1181	B06	XY	46,XY
B06_013	0.1245	B06	XY	46,XY
B06_014	0.2008	B06	XY	46,XY
B06_015	0.1229	B06	XY	46,XY
B06_016	0.1242	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_017	0.1506	B06	XY	46,XY
B06_018	0.2175	B06	XY	46,XY
B06_019	0.1934	B06	XY	46,XY
B06_020	0.1201	B06	XY	46,XY
B06_021	0.1305	B06	XY	46,XY
B06_022	0.1222	B06	XY	46,XY
B06_023	0.2731	B06	XY	46,XY
B06_024	0.122	B06	XY	46,XY
B06_025	0.1225	B06	XY	46,XY
B06_026	0.2636	B06	XY	46,XY
B06_027	0.1144	B06	XY	46,XY
B06_028	0.2355	B06	XY	46,XY
B06_029	0.2448	B06	XY	46,XY
B06_030	0.2773	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_031	0.1199	B06	XY	46,XY
B06_032	0.2153	B06	XY	46,XY
B06_033	0.2922	B06	OY	45,OY,-Xx0
B06_034	0.2419	B06	XY	46,XY
B06_035	0.2776	B06	XY	46,XY

B06_036	0.2349	B06	XY	46,XY
B06_037	0.1249	B06	XY	46,XY
B06_038	0.131	B06	XY	46,XY
B06_039	0.1811	B06	XY	46,XY
B06_040	0.1809	B06	XY	46,XY
B06_041	0.1256	B06	XY	46,XY
B06_042	0.2801	B06	XY	46,XY
B06_043	0.1737	B06	XY	46,XY
B06_044	0.1226	B06	XY	46,XY
B06_045	0.1577	B06	XY	46,XY
B06_046	0.1197	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_047	0.2353	B06	XY	46,XY
B06_048	0.1239	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_049	0.1282	B06	XY	46,XY
B06_050	0.1878	B06	XY	46,XY
B06_051	0.157	B06	XY	46,XY
B06_052	0.1261	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_053	0.189	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_054	0.2824	B06	XY	46,XY
B06_055	0.2307	B06	XY	46,XY
B06_056	0.2245	B06	XY	46,XY
B06_057	0.122	B06	XY	46,XY
B06_058	0.2118	B06	XY	46,XY
B06_059	0.27	B06	XY	46,XY
B06_060	0.1422	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_061	0.166	B06	XY	46,XY
B06_062	0.1458	B06	XY	45,XY,-8x1
B06_063	0.127	B06	XY	46,XY
B06_064	0.1216	B06	XY	46,XY
B06_065	0.1849	B06	XXY	50,XXY,+3x3,+8(pterq13.1,67M)x3,+8(q22.1qter,51M)x3,+18x3,+20x3,+Xx2
B06_066	0.1245	B06	XY	46,XY

B06_067	0.2533	B06	XY	46,XY
B06_068	0.1339	B06	XY	46,XY
B06_069	0.1638	B06	XY	46,XY
B06_070	0.2325	B06	XY	46,XY
B06_071	0.2402	B06	OY	45,OY,-Xx0
B06_072	0.1306	B06	XY	46,XY
B06_073	0.1284	B06	XY	46,XY
B06_074	0.2316	B06	XY	47,XY,+12x3,-13x1,+20x3
B06_075	0.1371	B06	XY	46,XY
B06_076	0.1351	B06	XY	46,XY
B06_077	0.1289	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_078	0.1246	B06	XY	46,XY
B06_079	0.2301	B06	XY	46,XY
B06_080	0.1415	B06	XY	46,XY
B06_081	0.1288	B06	XY	46,XY
B06_082	0.2686	B06	XY	46,XY
B06_083	0.1308	B06	XY	46,XY
B06_084	0.1244	B06	XY	46,XY
B06_085	0.2582	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_086	0.2287	B06	XY	46,XY,+8(q21.13q22.1,29M)x3,- 8(q22.1qter,51M)x1
B06_087	0.2758	B06	XY	46,XY,-8(q22.1qter,51M)x1
B06_088	0.1287	B06	XY	46,XY
B06_089	0.2274	B06	XY	46,XY,-8(q21.13qter,70M)x1
B06_090	0.1582	B06	XY	46,XY
B06_091	0.2502	B06	XY	46,XY,-5(pterp15.1,16M)x1
B06_092	0.1156	B06	XY	46,XY
B06_093	0.1141	B06	XY	46,XY
B06_094	0.2784	B06	XY	46,XY
B06_095	0.1162	B06	XY	46,XY
B06_096	0.1272	B06	XY	46,XY
B06_097	0.1517	B06	XY	46,XY,-10(pterp12.31,21M)x1,-

				11(q22.3qter,29M)x1
B06_098	0.1201	B06	XY	46,XY
B06_099	0.2131	B06	XY	46,XY,+2(q23.3qter,89M)x3
B06_100	0.2797	B06	XY	46,XY
B06_101	0.1992	B06	XY	46,XY
B06_102	0.1897	B06	XY	46,XY
B06_103	0.2902	B06	XY	46,XY
B06_104	0.1345	B06	XY	46,XY
B06_105	0.1389	B06	XY	45,XY,-17x1
B06_106	0.1368	B06	XY	45,XY,-17x1
B07_001	0.2557	B07	XX	46,XX
B07_002	0.1618	B07	XX	46,XX
B07_003	0.2443	B07	XX	46,XX,-2(q23.3qter,93M)x1
B07_004	0.2644	B07	XX	46,XX,-8(q21.13qter,63M)x1
B07_005	0.3117	B07	XX	46,XX,-2(q23.3qter,93M)x1
B07_006	0.1742	B07	XX	46,XX
B07_007	0.1905	B07	XX	48,XX,+9x3,+18x3,-19x1,+20x3
B07_008	0.2512	B07	XX	46,XX,+8(q21.13qter,63M)x3
B07_009	0.1897	B07	XX	46,XX
B07_010	0.2316	B07	XX	46,XX
B07_011	0.1226	B07	XX	45,XX,-9x1
B07_012	0.1511	B07	XX	46,XX
B07_013	0.1298	B07	XX	46,XX
B07_014	0.1441	B07	XX	46,XX
B07_015	0.1556	B07	XX	46,XX
B07_016	0.1473	B07	XX	46,XX
B07_017	0.1643	B07	XX	46,XX,-3(q25.2qter,48M)x1
B07_018	0.2016	B07	XX	46,XX
B07_019	0.2698	B07	XX	46,XX
B07_020	0.1314	B07	XX	46,XX
B07_021	0.1164	B07	XX	46,XX
B07_022	0.1282	B07	XX	46,XX

B07_023	0.1243	B07	XX	46,XX
B07_024	0.1233	B07	XX	46,XX
B07_025	0.1214	B07	XX	46,XX
B07_026	0.1391	B07	XX	46,XX,+19(q13.32qter,12M)x3
B07_027	0.1309	B07	XX	46,XX
B07_028	0.2068	B07	XX	46,XX
B07_029	0.1954	B07	XX	46,XX
B07_030	0.1166	B07	XX	46,XX
B07_031	0.2374	B07	XX	46,XX
B07_032	0.2421	B07	XX	46,XX
B07_033	0.2591	B07	XX	46,XX
B07_034	0.1655	B07	XX	46,XX
B07_035	0.2642	B07	XX	46,XX,-2(q23.3qter,93M)x1
B07_036	0.2402	B07	XX	46,XX
B07_037	0.1603	B07	XX	46,XX
B07_038	0.1167	B07	XX	46,XX
B07_039	0.1204	B07	XX	49,XX,+9x3,+18x3,+20x3
B07_040	0.1158	B07	XX	46,XX
B07_041	0.1353	B07	XX	46,XX
B07_042	0.2306	B07	XX	46,XX
B07_043	0.1304	B07	XX	46,XX
B07_044	0.2313	B07	XX	46,XX
B07_045	0.1323	B07	XX	46,XX
B07_046	0.1316	B07	XX	46,XX,-5(q11.2qter,127M)x1,- 16(q23.1qter,12M)x1
B07_047	0.1331	B07	XX	46,XX,-2(q23.3qter,93M)x1
B07_048	0.2671	B07	XX	46,XX
B07_049	0.1531	B07	XX	46,XX
B07_050	0.1697	B07	XX	46,XX
B07_051	0.128	B07	XX	46,XX
B07_052	0.136	B07	XX	46,XX
B07_053	0.1425	B07	XX	46,XX

B07_054	0.1176	B07	XX	46,XX
B07_055	0.1232	B07	XX	46,XX
B07_056	0.1645	B07	XX	46,XX
B08_001	0.1255	B08	XX	47,XX,+22x3
B08_002	0.203	B08	XX	46,XX
B08_003	0.164	B08	XX	46,XX
B08_004	0.1503	B08	XX	46,XX
B08_005	0.136	B08	XX	46,XX
B08_006	0.1676	B08	XX	46,XX
B08_007	0.233	B08	XX	46,XX
B08_008	0.2548	B08	XX	46,XX,-2(pterp24.2,18M)x1,-20(q12qter,26M)x1
B08_009	0.1625	B08	XX	46,XX
B08_010	0.251	B08	XX	45,XX,-22x1
B08_011	0.1794	B08	XX	46,XX
B08_012	0.1452	B08	XX	46,XX
B08_013	0.1597	B08	XX	46,XX
B08_014	0.2492	B08	XX	46,XX
B08_015	0.1501	B08	XX	46,XX
B08_016	0.1947	B08	XX	43,XX,-1x1,-15x1,-18x1
B08_017	0.1217	B08	XX	46,XX
B08_018	0.1563	B08	XX	46,XX
B08_019	0.1272	B08	XX	47,XX,+22x3
B08_020	0.1979	B08	XX	46,XX
B08_021	0.1276	B08	XX	46,XX
B08_022	0.1471	B08	XX	47,XX,+3(pterq22.3,138M)x3,+11x3,- 20(q13.13qter,16M)x1,+22x3
B08_023	0.121	B08	XX	46,XX
B08_024	0.1834	B08	XX	46,XX
B08_025	0.1393	B08	XX	46,XX
B08_026	0.119	B08	XX	46,XX
B08_027	0.212	B08	XX	46,XX
B08_028	0.2475	B08	XX	45,XX,-22x1

B08_029	0.164	B08	XX	46,XX
B08_030	0.1523	B08	XX	46,XX
B08_031	0.2668	B08	XX	46,XX,-4(q13.3qter,118M)x1
B08_032	0.1329	B08	XX	46,XX
B08_033	0.1691	B08	XX	46,XX,+X(q13.2qter,84M)x3
B08_034	0.2299	B08	XX	46,XX
B08_035	0.1455	B08	XX	46,XX
B08_036	0.149	B08	XX	46,XX
B09_001	0.1717	B09	XY	46,XY
B09_002	0.2126	B09	XY	46,XY
B09_003	0.2661	B09	XY	46,XY
B09_004	0.2324	B09	OYY	46,OYY,+4(q32.1qter,33M)x3,+5(q21.1qter,80M)x3,-7x1,+12x3,-16x1,+20x3,-Xx0,+Yx2
B09_005	0.1553	B09	XY	46,XY
B09_006	0.1187	B09	XY	46,XY
B09_007	0.254	B09	XY	46,XY
B09_008	0.1211	B09	XY	46,XY
B09_009	0.2233	B09	XY	46,XY
B09_010	0.1259	B09	XY	46,XY
B09_011	0.2362	B09	XY	46,XY
B09_012	0.1168	B09	XY	46,XY
B09_013	0.2708	B09	XY	46,XY,-12(q13.2qter,78M)x1,-13(q32.2qter,17M)x1
B09_014	0.1793	B09	XY	46,XY
B09_015	0.1499	B09	XY	46,XY
B09_016	0.284	B09	XY	46,XY,+2(q24.2q35,58M)x3,+5(q21.3qter,72M)x3,+10(q22.3q25.3,37M)x3
B09_017	0.1603	B09	XY	44,XY,-11x1,-17x1
B09_018	0.2522	B09	XY	46,XY
B09_019	0.2731	B09	XY	46,XY
B09_020	0.3006	B09	XY	46,XY,+13(q13.3qter,76M)x3
B09_021	0.2575	B09	XY	46,XY

B09_022	0.2683	B09	XY	46,XY,+1(p32.3q42.13,179M)x3,+2(q22.1q32.3,58M)x3,+8(p22q13.3,59M)x3
B09_023	0.1563	B09	XY	46,XY
B09_024	0.1323	B09	XY	46,XY
B09_025	0.2222	B09	XY	46,XY
B09_026	0.1216	B09	XY	46,XY
B09_027	0.1564	B09	OYY	44,OYY,-7x1,+12x3,-16x1,-20x1,-Xx0,+Yx2
B09_028	0.1237	B09	XY	46,XY
B09_029	0.1242	B09	XY	46,XY
B09_030	0.2318	B09	XY	46,XY
B09_031	0.277	B09	XY	46,XY
B09_032	0.1341	B09	XY	46,XY
B09_033	0.1567	B09	XY	46,XY
B09_034	0.1248	B09	XY	46,XY
B09_035	0.1639	B09	XY	46,XY
B09_036	0.1201	B09	XY	46,XY
B09_037	0.2912	B09	XY	46,XY
B09_038	0.1321	B09	XY	46,XY
B09_039	0.1932	B09	XY	46,XY
B09_040	0.2347	B09	XY	46,XY
B10_001	0.1305	B10	XY	46,XY
B10_002	0.1746	B10	XY	46,XY
B10_003	0.1313	B10	XY	46,XY
B10_004	0.2097	B10	XY	46,XY
B10_005	0.1424	B10	XY	42,XY,-6x1,-7x1,-10x1,-12x1
B10_006	0.2753	B10	XY	46,XY
B10_007	0.2881	B10	XY	46,XY
B10_008	0.2725	B10	XY	46,XY
B10_009	0.1668	B10	XY	42,XY,-6x1,-7x1,-10x1,-12x1
B10_010	0.113	B10	XY	46,XY
B10_011	0.2954	B10	XY	46,XY
B10_012	0.2129	B10	XY	50,XY,+6x3,+7x3,+10x3,+12x3

B10_013	0.1884	B10	XY	46,XY
B10_014	0.1392	B10	XY	46,XY
B10_015	0.187	B10	XY	46,XY
B10_016	0.1961	B10	XY	46,XY
B10_017	0.2451	B10	XY	46,XY
B10_018	0.1622	B10	XY	46,XY
B10_019	0.1401	B10	XY	46,XY
B10_020	0.2456	B10	XY	46,XY
B10_021	0.244	B10	XY	46,XY
B10_022	0.2354	B10	XY	50,XY,+6x3,+7x3,+10x3,+12x3
B10_023	0.2835	B10	XY	46,XY
B10_024	0.2312	B10	XY	46,XY
B10_025	0.142	B10	XY	46,XY
B10_026	0.2494	B10	XY	46,XY
B10_027	0.1975	B10	XO	39,XO,-4x1,-5x1,-6x1,-11x1,-16x1,-17x1,-Yx0
B10_028	0.1425	B10	XY	46,XY
B10_029	0.173	B10	XY	46,XY
B10_030	0.1226	B10	XY	46,XY
B10_031	0.1649	B10	XY	46,XY
B10_032	0.1424	B10	XY	42,XY,-6x1,-7x1,-10x1,-12x1
B10_033	0.135	B10	XY	46,XY
B10_034	0.1701	B10	XY	46,XY
B10_035	0.2234	B10	XY	46,XY
B10_036	0.2689	B10	XY	46,XY
B10_037	0.1543	B10	XY	46,XY
B10_038	0.2657	B10	XY	46,XY
B11_001	0.1195	B11	XO	44,XO,-13x1,-Xx1
B11_002	0.1275	B11	XX	46,XY,-10(q23.1qter,50M)x1
B11_003	0.152	B11	XX	46,XY
B11_004	0.143	B11	XX	46,XY
B11_005	0.2786	B11	XX	46,XY
B11_006	0.1155	B11	XX	46,XY

B11_007	0.231	B11	XX	46,XY
B11_008	0.2649	B11	XX	46,XY
B11_009	0.2819	B11	XX	45,XX,-7x1
B11_010	0.1254	B11	XX	46,XY
B11_011	0.2016	B11	XX	46,XY
B11_012	0.1342	B11	XX	46,XY
B11_013	0.2547	B11	XX	46,XY
B11_014	0.1701	B11	XX	46,XX,-10(q23.1qter,50M)x1
B11_015	0.2239	B11	XO	44,XO,-13x1,-Xx1
B11_016	0.1366	B11	XX	46,XY
B11_017	0.1213	B11	XX	46,XY
B11_018	0.182	B11	XX	46,XY
B11_019	0.1605	B11	XX	46,XY
B11_020	0.1393	B11	XX	46,XX,-2(q31.3qter,63M)x1,-9(pterp21.2,27M)x1
B11_021	0.2682	B11	XX	46,XX,-10(q23.1qter,50M)x1
B11_022	0.1326	B11	XX	46,XY
B11_023	0.121	B11	XX	46,XY
B11_024	0.1681	B11	XX	46,XY
B11_025	0.1688	B11	XX	46,XY
B11_026	0.1789	B11	XX	46,XY
B11_027	0.2119	B11	XX	46,XY
B11_028	0.1158	B11	XX	46,XY
B11_029	0.1419	B11	XX	46,XY
B11_030	0.2519	B11	XX	46,XY
B11_031	0.267	B11	XX	46,XY
B11_032	0.2228	B11	XX	46,XY
B11_033	0.2723	B11	XX	46,XY
B11_034	0.2446	B11	XX	47,XX,+20x3
B11_035	0.1637	B11	XX	46,XY
B11_036	0.201	B11	XX	46,XY
B11_037	0.2385	B11	XXX	48,XXX,+13x3,+Xx3
B11_038	0.139	B11	XX	46,XY

B11_039	0.2748	B11	XXX	47,XXX,+Xx3
B11_040	0.3342	B11	XX	46,XY
B11_041	0.1276	B11	XX	46,XY
B11_042	0.1385	B11	XX	46,XY
B11_043	0.2277	B11	XX	46,XY
B11_044	0.2535	B11	XX	46,XY
B11_045	0.3132	B11	XX	45,XX,-7x1
B11_046	0.157	B11	XX	46,XY
B11_047	0.1757	B11	XX	46,XY
B11_048	0.2382	B11	XX	46,XY
B11_049	0.2258	B11	XX	46,XY
B11_050	0.1988	B11	XX	46,XY
B11_051	0.2182	B11	XX	46,XY
B11_052	0.1857	B11	XX	46,XX,+1(pterp34.2,42M)x3,- 1(q32.1qter,46M)x1
B11_053	0.2851	B11	XX	46,XY
B11_054	0.3161	B11	XX	46,XY
B11_055	0.2682	B11	XX	46,XY
B12_001	0.2329	B12	XY	47,XY,+2x3
B12_002	0.2618	B12	XY	47,XY,+2x3
B12_003	0.1658	B12	XY	48,XY,+2x3,+4x3
B12_004	0.1415	B12	XY	47,XY,+2x3
B12_005	0.1393	B12	XY	47,XY,+2x3
B12_006	0.1881	B12	XY	45,XY,+2x3,-4x1,-18x1
B12_007	0.2259	B12	XY	47,XY,+2x3
B12_008	0.1516	B12	XY	49,XY,+2x3,+7x3,+20x3
B12_009	0.1924	B12	XY	49,XY,+2x3,+4x3,+18x3
B12_010	0.1759	B12	XY	45,XY,+2x3,-4x1,+7x3,-11x1,-18x1
B12_011	0.2236	B12	XY	45,XY,-20x1
B12_012	0.1936	B12	XY	47,XY,+2x3
B12_013	0.2226	B12	XY	47,XY,+2x3
B12_014	0.1425	B12	XY	47,XY,+2x3

B12_015	0.2976	B12	XY	46,XY,-12(pterp11.1,34M)x1
B12_016	0.2855	B12	XY	47,XY,+2x3
B12_017	0.3045	B12	XY	47,XY,+1x3,+2x3,-4x1
B12_018	0.2096	B12	XY	47,XY,+2x3
B12_019	0.1471	B12	XY	47,XY,+2x3
B12_020	0.1783	B12	XY	46,XY,+2x3,-4x1
B12_021	0.2263	B12	XY	48,XY,+1x3,+2x3
B12_022	0.2108	B12	XY	46,XY,-1x1,+2x3
B12_023	0.2421	B12	XY	47,XY,+2x3
B12_024	0.2555	B12	XY	47,XY,+2x3
B12_025	0.1246	B12	XY	47,XY,+2x3
B12_026	0.282	B12	XY	47,XY,+2x3
B12_027	0.2685	B12	XY	47,XY,+2x3
B12_028	0.2768	B12	XY	47,XY,+2x3
B12_029	0.145	B12	XY	46,XY,-1x1,+2x3
B12_030	0.2882	B12	XY	47,XY,+2x3
B12_031	0.2788	B12	XY	48,XY,+2x3,+4x3
B12_032	0.2366	B12	XY	45,XY,+2x3,-7x1,-20x1
B12_033	0.1515	B12	XY	47,XY,+2x3
B12_034	0.2814	B12	XY	47,XY,+2x3
B12_035	0.1437	B12	XY	47,XY,+2x3
B12_036	0.2684	B12	XY	46,XY,+2x3,-5x1
B12_037	0.1531	B12	XY	47,XY,+2x3
B12_038	0.2694	B12	XY	47,XY,+2x3
B12_039	0.1423	B12	XY	47,XY,+2x3
B12_040	0.2218	B12	XY	47,XY,+2x3
B12_041	0.1973	B12	OY	46,Y,+2x3,-Xx0
B12_042	0.2837	B12	XY	47,XY,+2x3
B12_043	0.257	B12	XY	48,XY,+2x3,+20x3
B12_044	0.2594	B12	XY	47,XY,+2x3
B12_045	0.1761	B12	XY	47,XY,+2x3
B12_046	0.2597	B12	XY	47,XY,+2x3

B12_047	0.2445	B12	XY	47,XY,+2x3
B12_048	0.2413	B12	XY	47,XY,+2x3
B12_049	0.2499	B12	XY	47,XY,+2x3
B12_050	0.2596	B12	XY	47,XY,+2x3
B12_051	0.283	B12	XY	47,XY,+2x3
B12_052	0.1699	B12	XXY	48,XXY,+2x3,+Xx2
B12_053	0.249	B12	XY	47,XY,+2x3
B12_054	0.2735	B12	XY	47,XY,-1x1,+2x3,+4x3
B12_055	0.2941	B12	XY	45,XY,-4x1
B12_056	0.1424	B12	XY	47,XY,+2x3
B12_057	0.2526	B12	XY	47,XY,+2x3
B12_058	0.1842	B12	XY	47,XY,+2x3
B12_059	0.2714	B12	XY	47,XY,+2x3
B12_060	0.2882	B12	XY	47,XY,+2x3
B12_061	0.2613	B12	XY	48,XY,+2x3,+12x3
B12_062	0.1469	B12	XY	47,XY,+2x3
B12_063	0.189	B12	XY	47,XY,+2x3
B12_064	0.1452	B12	XY	47,XY,+2x3
B12_065	0.2755	B12	XY	47,XY,+2x3
B12_066	0.1463	B12	XY	47,XY,+2x3
B12_067	0.2131	B12	XY	47,XY,+2x3
B12_068	0.1421	B12	XY	47,XY,+2x3
B12_069	0.1157	B12	XY	47,XY,+2x3
B12_070	0.2006	B12	XY	47,XY,+2x3
B12_071	0.1725	B12	XY	47,XY,+2x3
B12_072	0.1791	B12	XY	47,XY,+2x3
B12_073	0.1336	B12	XY	47,XY,+2x3
B12_074	0.1575	B12	XY	47,XY,+2x3
B12_075	0.1208	B12	XY	47,XY,+2x3
B12_076	0.1241	B12	XY	47,XY,+2x3
B12_077	0.2679	B12	XY	47,XY,+2x3
B12_078	0.2165	B12	XY	47,XY,+2x3

B12_079	0.12	B12	XY	47,XY,+2x3
B12_080	0.153	B12	XY	47,XY,+2x3
B12_081	0.2545	B12	XY	46,XY,+12(pterp11.1,34M)x3
B12_082	0.2673	B12	XY	47,XY,+2x3
B12_083	0.2825	B12	XY	47,XY,+2x3
B12_084	0.2262	B12	XY	47,XY,+2x3
B12_085	0.1933	B12	XY	47,XY,+2x3
B12_086	0.1571	B12	XY	47,XY,+2x3
B12_087	0.2478	B12	XY	46,XY,+2x3,-12x1
B12_088	0.2681	B12	XY	47,XY,+2x3
B12_089	0.2709	B12	XY	47,XY,+2x3
B12_090	0.2415	B12	XY	46,XY
B12_091	0.133	B12	XY	47,XY,+2x3
B12_092	0.1269	B12	XY	47,XY,+2x3
B12_093	0.1385	B12	XY	48,XY,+4x3,-7x1,+11x3,+18x3
B13_001	0.1516	B13	XY	47,XY,+16x3
B13_002	0.1423	B13	XY	47,XY,+16x3
B13_003	0.198	B13	XY	47,XY,+16x3
B13_004	0.2004	B13	XY	47,XY,+16x3
B13_005	0.142	B13	XY	47,XY,+16x3
B13_006	0.2622	B13	XY	47,XY,+16x3
B13_007	0.2597	B13	XY	46,XY,-4x1,+16x3
B13_008	0.154	B13	XY	48,XY,+4x3,+16x3
B13_009	0.1234	B13	XY	47,XY,+16x3
B13_010	0.1375	B13	XY	47,XY,+16x3
B13_011	0.2304	B13	XY	46,XY,-4x1,+16x3
B13_012	0.1394	B13	XY	46,XY,-4x1,+16x3
B13_013	0.1544	B13	XY	47,XY,+16x3
B13_014	0.1253	B13	XY	47,XY,+16x3
B13_015	0.262	B13	XY	47,XY,+16x3
B13_016	0.1307	B13	XY	47,XY,+16x3
B13_017	0.1631	B13	XY	47,XY,+5(pterq14.1,80M)x3,+16x3

B13_018	0.2821	B13	XY	47,XY,+16x3
B13_019	0.178	B13	XY	47,XY,+16x3
B13_020	0.2682	B13	XY	47,XY,+16x3
B13_021	0.1257	B13	XY	46,XY,-4x1,+16x3
B13_022	0.117	B13	XY	47,XY,+16x3
B13_023	0.1804	B13	XY	47,XY,+16x3
B13_024	0.1645	B13	XY	46,XY,-4x1,+16x3
B13_025	0.2364	B13	XY	47,XY,+16x3
B13_026	0.2014	B13	XY	47,XY,+16x3
B13_027	0.318	B13	XY	46,XY,-4x1,+16x3
B13_028	0.1246	B13	XY	47,XY,+16x3
B13_029	0.1353	B13	XY	47,XY,+16x3
B13_030	0.3202	B13	XY	47,XY,+16x3
B13_031	0.1469	B13	XY	47,XY,+16x3
B13_032	0.1335	B13	XY	47,XY,+16x3
B13_033	0.1175	B13	XY	47,XY,+16x3
B13_034	0.1321	B13	XY	47,XY,+16x3
B13_035	0.1218	B13	XY	47,XY,+16x3
B13_036	0.1403	B13	XY	47,XY,+16x3
B13_037	0.2739	B13	XY	47,XY,+16x3
B13_038	0.1388	B13	XY	46,XY,-4x1,+16x3
B13_039	0.1712	B13	XY	46,XY,-4x1,+16x3
B13_040	0.1641	B13	XY	47,XY,+16x3
B13_041	0.1328	B13	XY	47,XY,+16x3
B14_001	0.1565	B14	XX	45,XX,-14x1
B14_002	0.121	B14	XX	46,XX
B14_003	0.2456	B14	XX	46,XX
B14_004	0.2524	B14	XX	46,XX
B14_005	0.1381	B14	XX	45,XX,-14x1
B14_006	0.2286	B14	XX	46,XX
B14_007	0.2075	B14	XX	46,XX
B14_008	0.2734	B14	XX	47,XX,+14x3

B14_009	0.1271	B14	XX	46,XX
B14_010	0.26	B14	XO	45,XO,-Xx1
B14_011	0.2252	B14	XX	46,XX
B14_012	0.2502	B14	XX	46,XX
B14_013	0.1243	B14	XX	46,XX
B14_014	0.1769	B14	XX	47,XX,+14x3
B14_015	0.2881	B14	XX	46,XX
B14_016	0.1652	B14	XX	46,XX
B14_017	0.261	B14	XX	46,XX
B14_018	0.1296	B14	XX	46,XX
B14_019	0.2559	B14	XX	46,XX
B14_020	0.2481	B14	XX	46,XX
B14_021	0.1576	B14	XX	45,XX,-7x1
B14_022	0.125	B14	XX	46,XX
B14_023	0.2928	B14	XX	46,XX
B14_024	0.3109	B14	XX	46,XX
B14_025	0.1227	B14	XX	46,XX
B14_026	0.254	B14	XX	46,XX
B14_027	0.2429	B14	XX	46,XX
B14_028	0.137	B14	XX	45,XX,-5x1,+6x3,-7x0,-9x1,- 11x1,+14x3,+18x3,+21x3
B14_029	0.1216	B14	XX	46,XX
B14_030	0.2676	B14	XX	46,XX
B14_031	0.2607	B14	XO	45,XO,-Xx1
B14_032	0.1403	B14	XX	45,XX,-7x1
B14_033	0.1254	B14	XX	45,XX,-5x1,+7x3,-9x1
B15_001	0.1596	B15	XX	45,XX,-22x1
B15_002	0.1968	B15	XX	45,XX,-22x1
B15_003	0.2408	B15	XX	45,XX,- 7(pterq11.21,63M)x1,+14(q23.1qter,48M)x3,- 22x1
B15_004	0.1705	B15	XX	45,XX,-22x1

B15_005	0.2456	B15	XX	45,XX,-22x1
B15_006	0.1349	B15	XX	44,XX,-7x1,-22x1
B15_007	0.1261	B15	XX	45,XX,-22x1
B15_008	0.1657	B15	XX	45,XX,-22x1
B15_009	0.1705	B15	XX	45,XX,-7(pterq11.21,63M)x1,-22x1
B15_010	0.1499	B15	XX	45,XX,- 7(pterq11.21,63M)x1,+7(q11.21qter,97M)x3,- 22x1
B15_011	0.1602	B15	XX	45,XX,-6(q13qter,98M)x1,- 7(pterq11.21,63M)x1,-14(q23.1qter,48M)x1,- 22x1
B15_012	0.1379	B15	XX	45,XX,-22x1
B15_013	0.1588	B15	XX	46,XX,+6x3,- 7(pterq11.21,63M)x1,+7(q11.21qter,97M)x3,- 22x1
B15_014	0.2121	B15	XX	45,XX,-7(pterq11.21,63M)x1,+17x3,-22x1
B15_015	0.136	B15	XX	46,XX,+8x3,-22x1
B15_016	0.1365	B15	XX	46,XX,+18x3,-22x1
B15_017	0.1445	B15	XX	45,XX,-22x1
B15_018	0.1872	B15	XX	45,XX,-22x1
B15_019	0.1336	B15	XX	45,XX,-7(pterq11.21,63M)x1,-22x1
B15_020	0.1389	B15	XX	45,XX,-7(pterq11.21,63M)x1,-22x1
B15_021	0.1378	B15	XX	45,XX,-22x1
B15_022	0.2146	B15	XX	45,XX,-22x1
B15_023	0.1365	B15	XX	45,XX,-22x1
B15_024	0.159	B15	XX	45,XX,-22x1
B15_025	0.1612	B15	XX	45,XX,-22x1
B15_026	0.1485	B15	XX	45,XX,-7(pterq11.21,63M)x1,-22x1
B15_027	0.2332	B15	XX	45,XX,-22x1
B15_028	0.1554	B15	XX	46,XX,+8(q23.1qter,40M)x3,+19x3,-22x1
B15_029	0.1425	B15	XX	45,XX,- 7(pterq11.21,63M)x1,+8(pterq21.2,85M)x3,-

				22x1
B15_030	0.2203	B15	XX	45,XX,-22x1
B15_031	0.1516	B15	XX	45,XX,-7(pterq11.21,63M)x1,-22x1
B15_032	0.1461	B15	XX	45,XX,-22x1
B15_033	0.1534	B15	XX	47XX,+13x3,+16x3,-22x1
B15_034	0.2677	B15	XX	44,XX,-7x1,-22x1
B15_035	0.2154	B15	XX	45,XX,-7(pterq11.21,63M)x1,-22x1
B16_001	0.1752	B16	XY	46,XY,+19x3,-22x1
B16_002	0.132	B16	XY	46,XY,+19x3,-22x1
B16_003	0.1336	B16	XY	46,XY,+19x3,-22x1
B16_004	0.1408	B16	XY	46,XY,+19x3,-22x1
B16_005	0.1306	B16	XY	46,XY,+19x3,-22x1
B16_006	0.2612	B16	XY	44,XY,-16x1,-18x1,+19x3,-22x1
B16_007	0.1311	B16	XY	46,XY,+19x3,-22x1
B16_008	0.1258	B16	XY	46,XY,+19x3,-22x1
B16_009	0.1899	B16	XY	46,XY,+19x3,-22x1
B16_010	0.1356	B16	XY	45,XY,-18x1,+19x3,-22x1
B16_011	0.1352	B16	XY	46,XY,+19x3,-22x1
B16_012	0.2262	B16	XY	46,XY,+19x3,-22x1
B16_013	0.2116	B16	XY	46,XY,+19x3,-22x1
B16_014	0.1918	B16	XY	46,XY,+19x3,-22x1
B16_015	0.2756	B16	XY	46,XY,+19x3,-22x1
B16_016	0.2297	B16	XY	46,XY,+19x3,-22x1
B16_017	0.1871	B16	XY	46,XY,+19x3,-22x1
B16_018	0.1482	B16	XY	46,XY,+19x3,-22x1
B16_019	0.1343	B16	XY	46,XY,+19x3,-22x1
B16_020	0.1493	B16	XY	46,XY,+19x3,-22x1
B16_021	0.1315	B16	XY	46,XY,-14(q21.3qter,58M)x1,+19x3,-22x1
B16_022	0.1606	B16	XY	46,XY,+19x3,-22x1
B16_023	0.2537	B16	XY	46,XY,+19x3,-22x1
B16_024	0.1351	B16	XY	45,XY,-18x1,+19x3,-22x1
B16_025	0.1894	B16	XY	46,XY,+19x3,-22x1

B16_026	0.2478	B16	XY	46,XY,+19x3,-22x1
B16_027	0.1343	B16	XY	46,XY,-14(q21.3qter,58M)x1,+19x3,-22x1
B16_028	0.2436	B16	XY	46,XY,+19x3,-22x1
B16_029	0.253	B16	XY	46,XY,+19x3,-22x1
B16_030	0.1309	B16	XY	46,XY,+19x3,-22x1
B16_031	0.1362	B16	XY	46,XY,+19x3,-22x1
B16_032	0.136	B16	XY	46,XY,+19x3,-22x1
B16_033	0.1332	B16	XY	46,XY,+19x3,-22x1
B16_034	0.1319	B16	XY	46,XY,+19x3,-22x1
B16_035	0.2131	B16	XY	46,XY,+19x3,-22x1
B16_036	0.1583	B16	XY	46,XY,+19x3,-22x1
B16_037	0.2437	B16	XY	45,XY,-5x1,+19x3,-22x1
B16_038	0.1235	B16	XY	46,XY,+19x3,-22x1
B16_039	0.241	B16	XY	46,XY,+19x3,-22x1
B16_040	0.1764	B16	XY	46,XY,+19x3,-22x1
B16_041	0.2564	B16	XY	46,XY,+19x3,-22x1
B16_042	0.2294	B16	XY	46,XY,+19x3,-22x1
B17_001	0.1533	B17	XX	47,XX,+16x3
B17_002	0.132	B17	XX	47,XX,+16x3
B17_003	0.2594	B17	XX	47,XX,+16x3
B17_004	0.13	B17	XX	47,XX,+16x3
B17_005	0.1281	B17	XX	47,XX,+16x3
B17_006	0.1855	B17	XX	46,XX,-2x1,+16x3
B17_007	0.1499	B17	XX	47,XX,+16x3
B17_008	0.1798	B17	XX	43,XX,-2x1,-4x1,-10x1,+16x3,-22x1
B17_009	0.1189	B17	XX	47,XX,+16x3
B17_010	0.1352	B17	XX	47,XX,+16x3
B17_011	0.2167	B17	XX	47,XX,+16x3
B17_012	0.2717	B17	XX	47,XX,+16x3
B17_013	0.2034	B17	XX	47,XX,+16x3
B17_014	0.1434	B17	XX	47,XX,+16x3
B17_015	0.1314	B17	XX	47,XX,-7(pterp11.2,58M)x1,+16x3

B17_016	0.1286	B17	XX	47,XX,+16x3
B17_017	0.2387	B17	XX	47,XX,+16x3
B17_018	0.1451	B17	XX	47,XX,+16x3
B17_019	0.1649	B17	XX	47,XX,+16x3
B17_020	0.1497	B17	XX	47,XX,+16x3
B17_021	0.1524	B17	XX	47,XX,+16x3
B17_022	0.1765	B17	XX	47,XX,+16x3
B17_023	0.2457	B17	XX	47,XX,+16x3
B17_024	0.1286	B17	XX	48,XX,-4(q13.1qter,127M)x1,+9x3,+16x3
B17_025	0.2659	B17	XX	48,XX,-1(q21.1qter,105M)x1,+4x3,+16x3
B17_026	0.2018	B17	XX	47,XX,+16x3
B17_027	0.119	B17	XX	47,XX,+16x3
B17_028	0.1234	B17	XX	47,XX,+16x3
B17_029	0.2375	B17	XX	47,XX,+16x3
B17_030	0.1226	B17	XX	47,XX,+16x3
B17_031	0.1465	B17	XX	47,XX,+16x3
B17_032	0.2859	B17	XX	47,XX,+16x3
B17_033	0.2165	B17	XX	47,XX,+16x3
B17_034	0.1363	B17	XX	47,XX,+16x3
B17_035	0.2526	B17	XX	47,XX,+16x3
B17_036	0.1232	B17	XX	47,XX,+16x3
B17_037	0.1106	B17	XX	47,XX,+16x3
B17_038	0.1387	B17	XX	47,XX,+16x3
B17_039	0.1309	B17	XX	47,XX,+16x3
B17_040	0.2274	B17	XX	47,XX,+16x3
B17_041	0.2323	B17	XX	47,XX,+16x3
B17_042	0.1619	B17	XX	47,XX,+16x3
B17_043	0.1286	B17	XX	46,XX,-4x1,+16x3
B17_044	0.1204	B17	XX	47,XX,+16x3
B17_045	0.1541	B17	XX	46,XX,+1(q21.1qter,105M)x3,-9x1,+16x3
B17_046	0.1883	B17	XX	50,XX,+6x3,+13x3,+16x3,+18x3
B17_047	0.119	B17	XX	47,XX,+16x3

B17_048	0.2351	B17	XX	47,XX,+16x3
B17_049	0.2569	B17	XX	47,XX,+16x3
B17_050	0.1235	B17	XX	47,XX,+16x3
B17_051	0.2434	B17	XX	47,XX,+16x3
B17_052	0.1353	B17	XX	47,XX,+16x3
B17_053	0.1228	B17	XX	47,XX,+16x3
B17_054	0.1327	B17	XX	47,XX,+16x3
B17_055	0.2655	B17	XX	47,XX,+16x3
B17_056	0.159	B17	XX	47,XX,+16x3
B17_057	0.1231	B17	XX	47,XX,+16x3
B17_058	0.1238	B17	XX	47,XX,+16x3
B17_059	0.2765	B17	XX	46,XX,-1(q21.1qter,105M)x1,-4x1,+16x3
B17_060	0.1423	B17	XX	47,XX,+16x3
B17_061	0.1242	B17	XX	46,XX,+16x3,-20x1
B17_062	0.1292	B17	XX	47,XX,+16x3
B17_063	0.1698	B17	XX	47,XX,+16x3
B17_064	0.2131	B17	XX	47,XX,+16x3
B17_065	0.1783	B17	XX	47,XX,+16x3
B17_066	0.1832	B17	XX	46,XX,+16x3,+21x3
B17_067	0.1733	B17	XX	47,XX,+16x3
B17_068	0.2044	B17	XX	47,XX,+16x3
B17_069	0.2771	B17	XX	47,XX,+4(p15.1q31.3,124M)x3,+16x3
B17_070	0.2011	B17	XX	47,XX,+16x3
B17_071	0.1256	B17	XX	47,XX,+16x3
B17_072	0.1239	B17	XX	46,XX,-14x1,+16x3
B17_073	0.1209	B17	XX	47,XX,+16x3
B17_074	0.1856	B17	XX	47,XX,+16x3
B17_075	0.1409	B17	XX	51,XX,+1(q21.1qter,105M)x3,+3x3,+7x3,+16x3, +18x3,+19x3
B18_001	0.1422	B18	XY	47,XY,+14x3
B18_002	0.1413	B18	XY	47,XY,+14x3
B18_003	0.2998	B18	XY	47,XY,+14x3

B18_004	0.156	B18	XY	47,XY,+14x3
B18_005	0.1398	B18	XY	48,XY,+3x3,+14x3
B18_006	0.2984	B18	XY	48,XY,+3x3,+14x3
B18_007	0.1529	B18	XY	47,XY,+14x3
B18_008	0.2496	B18	XY	47,XY,+14x3
B18_009	0.1715	B18	XY	47,XY,+14x3
B18_010	0.214	B18	XY	48,XY,+3x3,+14x3
B18_011	0.2346	B18	XY	47,XY,+14x3
B18_012	0.28	B18	XY	47,XY,+14x3
B18_013	0.137	B18	XY	51,XY,+1x3,- 2(q33.3qter,36M)x1,+8x3,+9x3,+11x3,+14x3
B18_014	0.1575	B18	XY	47,XY,+14x3
B18_015	0.1594	B18	XY	50,XY,+10x3,+11x3,+14x3,+22x3
B18_016	0.2717	B18	XY	47,XY,+14x3
B18_017	0.1313	B18	XY	50,XY,+10x3,+11x3,+14x3,+22,x3
B18_018	0.2232	B18	XY	51,XY,+1x3,+2(pterp11.2,89M)x3,- 2(q33.3qter,36M)x1,+8x3,+9x3,+11x3,+14x3
B18_019	0.1361	B18	XY	47,XY,+14x3
B18_020	0.1596	B18	XY	47,XY,+14x3
B18_021	0.127	B18	XY	48,XY,+3x3,+14x3
B18_022	0.2609	B18	XY	51,XY,+1x3,-2(pterp24.1,23M)x1,- 2(q33.3qter,36M)x1,- 5(pterp15.2,13M)x1,+8x3,+9x3,+11x3,+14x3
B18_023	0.2051	B18	XY	47,XY,+14x3
B18_024	0.2498	B18	XY	47,XY,+14x3
B18_025	0.2154	B18	XY	51,XY,+1x3,+2(pterq33.3,207M)x3,- 2(q33.3qter,36M)x1,+8x3,+9x3,+11x3,+14x3
B18_026	0.274	B18	XY	50,XY,+10x3,+11x3,+14x3,+22x3
B18_027	0.1689	B18	XY	50,XY,+10x3,+11x3,+14x3,+22x3
B18_028	0.2622	B18	XY	47,XY,+14x3
B18_029	0.1382	B18	XY	47,XY,+14x3
B18_030	0.1473	B18	XY	48,XY,+3x3,+14x3

B18_031	0.2183	B18	XY	47,XY,+14x3
B18_032	0.2832	B18	XY	50,XY,+10x3,+11x3,+14x3,+22x3
B18_033	0.2052	B18	XY	50,XY,+10x3,+11x3,+14x3,+22x3
B18_034	0.288	B18	XY	47,XY,+14x3
B18_035	0.1462	B18	XY	47,XY,+14x3
B18_036	0.1528	B18	XY	47,XY,+14x3
B18_037	0.2411	B18	XY	48,XY,+3x3,+14x3
B18_038	0.1256	B18	XY	47,XY,+14x3
B18_039	0.1604	B18	XY	47,XY,+14x3
B18_040	0.218	B18	XY	47,XY,+14x3
B18_041	0.1927	B18	XY	47,XY,+14x3
B18_042	0.1657	B18	XY	47,XY,+14x3
B18_043	0.1563	B18	XY	47,XY,+14x3
B19_001	0.1691	B19	XX	47,XX,+22x3
B19_002	0.1438	B19	XX	47,XX,+22x3
B19_003	0.1576	B19	XX	44,XX,-3x1,-15x1
B19_004	0.1642	B19	XX	47,XX,+22x3
B19_005	0.2343	B19	XX	45,XX,-18x1,-21x1,+22x3
B19_006	0.1694	B19	XX	47,XX,+22x3
B19_007	0.1469	B19	XX	47,XX,+22x3
B19_008	0.1651	B19	XX	47,XX,+22x3
B19_009	0.2682	B19	XX	47,XX,+22x3
B19_010	0.1551	B19	XX	47,XX,+22x3
B19_011	0.2332	B19	XX	45,XX,-18x1,-21x1,+22x3
B19_012	0.2253	B19	XX	45,XX,-18x1,-21x1,+22x3
B19_013	0.3018	B19	XX	47,XX,+22x3
B19_014	0.2406	B19	XX	47,XX,+22x3
B19_015	0.2545	B19	XX	47,XX,+22x3
B19_016	0.2747	B19	XX	47,XX,+22x3
B19_017	0.2353	B19	XX	47,XX,+22x3
B19_018	0.3126	B19	XX	47,XX,+22x3
B19_019	0.2099	B19	XX	47,XX,+22x3

B19_020	0.2698	B19	XX	47,XX,+22x3
B19_021	0.2997	B19	XX	47,XX,+22x3
B19_022	0.2613	B19	XX	47,XX,+22x3
B19_023	0.1831	B19	XX	47,XX,+22x3
B19_024	0.2142	B19	XX	47,XX,+22x3
B19_025	0.2859	B19	XX	47,XX,+22x3
B19_026	0.1985	B19	XX	55,XX,+8x3,+10x3,+14x3,+17x3,+18x3,+19x3,+ 20x3,+21x3,+22x3
B19_027	0.2133	B19	XX	47,XX,+22x3
B19_028	0.153	B19	XX	47,XX,+22x3
B19_029	0.1762	B19	XX	47,XX,+22x3
B19_030	0.1517	B19	XX	55,XX,+8x3,+10x3,+14x3,+17x3,+18x3,+19x3,+ 20x3,+21x3,+22x3
B20_001	0.2703	B20	XY	46,XY,-1(pterp22.1,93M)x1
B20_002	0.1438	B20	XY	46,XY,-1(pterp22.1,93M)x1
B20_003	0.1701	B20	XY	46,XY
B20_004	0.1523	B20	XY	46,XY,-1(pterp22.1,93M)x1
B20_005	0.2574	B20	XY	46,XY
B20_006	0.1791	B20	XY	46,XY,-1(pterp22.1,93M)x1
B20_007	0.1429	B20	XY	46,XY
B20_008	0.2623	B20	XY	46,XY
B20_009	0.2058	B20	XY	46,XY
B20_010	0.2516	B20	XY	46,XY
B20_011	0.2994	B20	XY	46,XY,-1(pterp22.1,93M)x1
B20_012	0.2961	B20	XY	46,XY
B20_013	0.138	B20	XY	46,XY
B20_014	0.1298	B20	XY	46,XY
B20_015	0.1673	B20	XY	46,XY
B20_016	0.1489	B20	XY	46,XY
B20_017	0.2401	B20	XY	46,XY
B20_018	0.1697	B20	XY	46,XY
B20_019	0.2943	B20	XY	46,XY

B20_020	0.1374	B20	XY	46,XY
B20_021	0.2758	B20	XY	46,XY,-1(pterp22.1,93M)x1
B20_022	0.2602	B20	XY	46,XY
B20_023	0.2215	B20	XY	46,XY
B20_024	0.2265	B20	XY	46,XY,-1(pterp22.1,93M)x1
B20_025	0.2761	B20	XY	46,XY
B20_026	0.1464	B20	XY	46,XY
B20_027	0.2535	B20	XY	46,XY,-1(pterp22.1,93M)x1
B20_028	0.2184	B20	XY	46,XY
B20_029	0.245	B20	XY	46,XY,-1(pterp22.1,93M)x1
B20_030	0.2072	B20	XY	46,XY

Supplementary Table S2. Validation data of known meiotic aneuploidies detected by single cell WGS.

Family	Abnormal parental Karyotype	Embryo	Embryo karyotype detected by routine PG-T procedure on multi-cells	Mapped bases number	Average sequencing depth	VS	Embryo karyotype detected by single cell sequencing	Mapped bases number by single cell sequencing	Average sequencing depth by single cell sequencing	VS of single cell sequencing
1	46,XX,rob(13;14)(q10;q10)	F1-E1	unbalanced,XX,dup(14)(q10q32.33)	3302527381	1.125276	0.1313	unbalanced,XX,dup(14)(q10q32.33)	1088102078	0.370750946	0.1373
2	46,XX,t(3;16)(p23;q24)	F2-E1	unbalanced,XX,del(3)(p26.3p23),dup(6)(q24.2q24.3)	3426349037	1.16746597	0.1391	unbalanced,XX,del(3)(p26.3p23),dup(6)(q24.2q24.3)	718756156	0.244903057	0.1440
2	46,XX,t(3;16)(p23;q24)	F2-E2	unbalanced,XX,dup(3)(p26.3p23),del(6)(q24.2q24.3)	3428226650	1.16810573	0.1256	unbalanced,XX,dup(3)(p26.3p23),del(6)(q24.2q24.3)	834073218	0.284195243	0.1330
3	46,XX,t(1;15)(q42;p12)	F3-E1	unbalanced,XX,dup(1)(q42q44),del(15)(p13p12)	2998070277	1.02153779	0.1155	unbalanced,XX,dup(1)(q42q44),del(15)(p13p12)	1052544013	0.358635184	0.1225
4	46,XY,t(6;14)(p22;q22)	F4-E1	unbalanced,XX,dup(6)(p26.3p22),del(14)(q22q24.3)	3670366002	1.2506103	0.1214	unbalanced,XX,dup(6)(p26.3p22),del(14)(q22q24.3)	1471061068	0.50123724	0.1262
4	46,XY,t(6;14)(p22;q22)	F4-E2	unbalanced,XY,dup(6)(p26.3p22),del(14)(q22q24.3)	3981193468	1.35651909	0.1228	unbalanced,XY,dup(6)(p26.3p22),del(14)(q22q24.3)	1268734162	0.432298036	0.1241
5	46,XX,t(9;10)(p22;p11.2)	F5-E1	unbalanced,XX,del(9)(p24.3p22),dup(10)(p15.3p11.2)	4148900711	1.41366228	0.1156	unbalanced,XX,del(9)(p24.3p22),dup(10)(p15.3p11.2)	1228781359	0.418684846	0.1203
6	46,XX,rob(14;22)(q10;q10)	F6-E1	unbalanced,XY,del(22)(q10q13.33)	3737239711	1.2733963	0.1165	unbalanced,XY,del(22)(q10q13.33)	1130690329	0.385262116	0.1224
7	46,XY,t(7;13)(p12;p13)	F7-E1	unbalanced,XY,dup(7)(p22.3p12),del(13)(p13p13)	3404758139	1.16010926	0.1167	unbalanced,XY,dup(7)(p22.3p12),del(13)(p13p13)	935872367	0.318881447	0.1219
8	46,XX,rob(13;15)(q10;q10)	F8-E1	unbalanced,XX,dup(15)(q10q26.3)	5255202388	1.79061441	0.1128	unbalanced,XX,dup(15)(q10q26.3)	710358927	0.242041854	0.1259
9	46,XY,t(7;15)(p22;q26.1)	F9-E1	unbalanced,XY,dup(7)(p22.3p22),del(15)(q26.1q26.3)	4152190310	1.41478315	0.1295	unbalanced,XY,dup(7)(p22.3p22),del(15)(q26.1q26.3)	1503706440	0.512360556	0.1347
9	46,XY,t(7;15)(p22;q26.1)	F9-E3	unbalanced,XX,del(7)(p22.3p22),dup(15)(q26.1q26.3)	3418402604	1.16475837	0.1252	unbalanced,XX,del(7)(p22.3p22),dup(15)(q26.1q26.3)	1237001540	0.421485723	0.1352
10	46,XY,t(5;22)(q35;q13)	F10-E1	unbalanced,XX,dup(5)(q35.3q35.3),del(22)(q13.2q13.33)	3836256403	1.30713443	0.1283	unbalanced,XX,dup(5)(q35.3q35.3),del(22)(q13.2q13.33)	993625360	0.338559727	0.1376
10	46,XY,t(5;22)(q35;q13)	F10-E2	unbalanced,XX,del(5)(q35.3q35.3),dup(22)(q13.2q13.33)	4097421554	1.30612169	0.1181	unbalanced,XX,del(5)(q35.3q35.3),dup(22)(q13.2q13.33)	949995631	0.323693692	0.1238