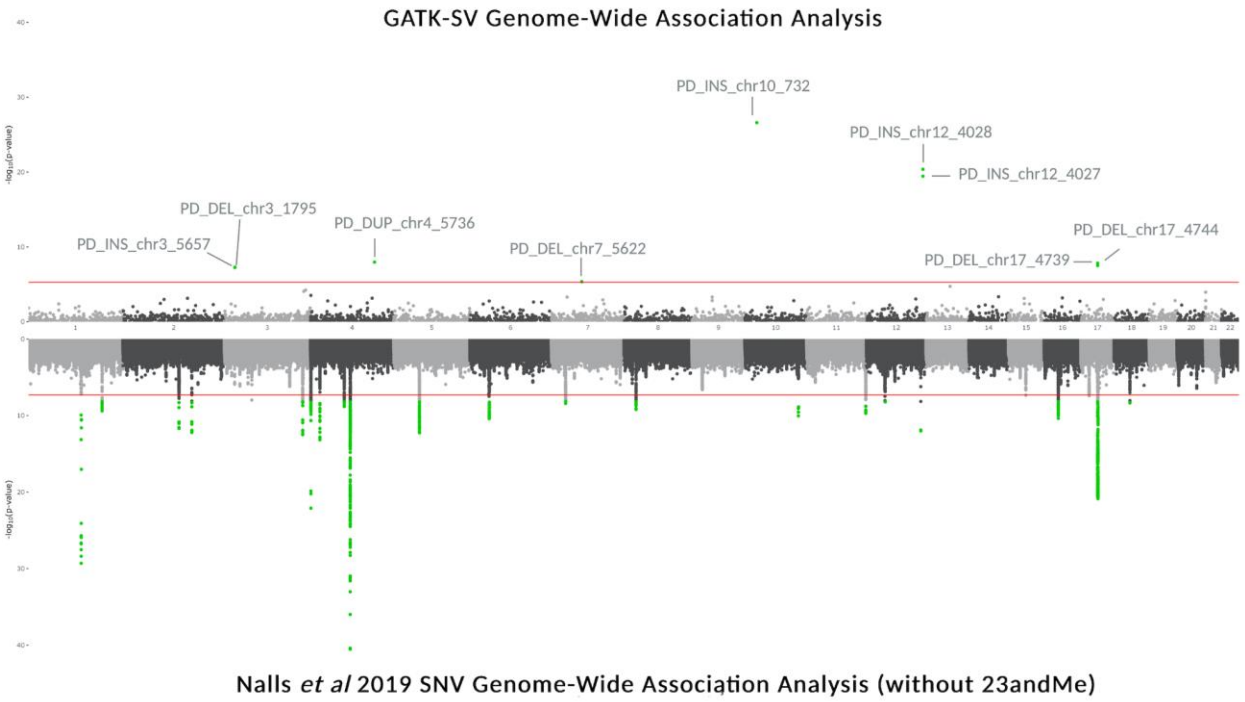
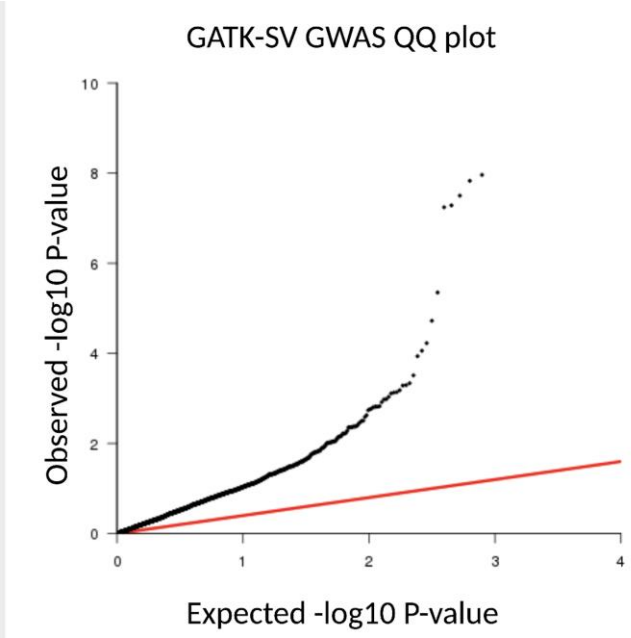
# Supplementary Materials

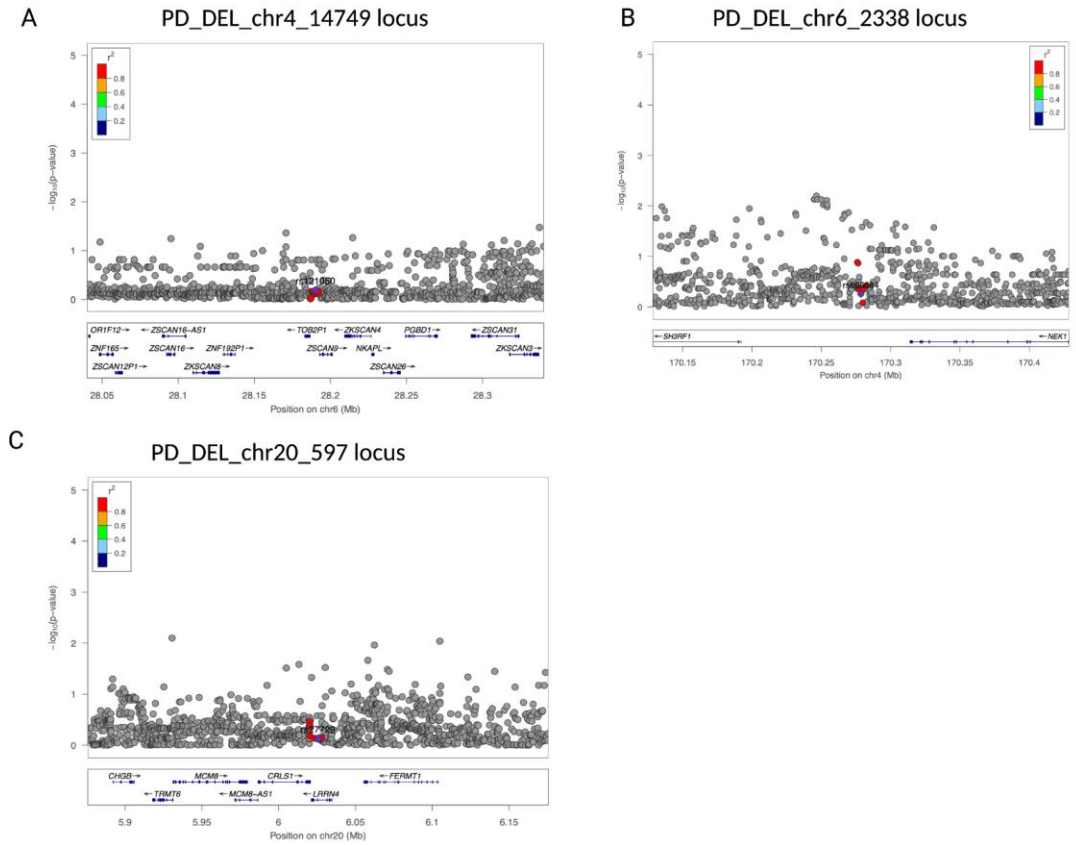
## Supplementary Figures




**Sup Fig 1: Manhattan (on the hudson) plots for the SV GWAS (top) and Nalls *et al* 2019 SNV (bottom) GWAS:** The top plot represents the SV GWAS results in this present study showing nine genome-wide significant SVs. Significant SVs are highlighted in green and annotated by SV ID in gray. The red line represents the genome-wide significance level ($P = 5 \times 10{-}6$) for SV. To note, none of the significant SV were confirmed with LRS. The bottom plot represents the SNV Meta5 PD GWAS. The red dotted line represents the genome-wide significance level ($P = 5 \times 10{-}8$) for SNV. The X axis represents the base pair position of variants from smallest to largest per chromosome (1–22).




**Sup Fig 2: QQ-plot of the SV GWAS, testing 3154 variants, lambda = 1.011**




**Sup Fig 3: The risk association signal at the three known risk that contain a validated SV in linkage disequilibrium with the lead PD risk SNV** a) Locus zoom plot of the chr 4 rs62333164 locus b) Locus zoom plot of the chr6 rs4140646 locus c) Locus zoom plot of the chr20 rs77351827 locus

# Supplementary Tables

## Supplementary Table 1: Clinical and demographic characteristics of WGS data for samples included in the SV GWAS

| Study | Cases (N) | Controls (N) | Total (N) | Female case (%) | Female control (%) | Case age at onset (mean , SD in years) | Control age at last exam (mean, SD in years) |
|---|---|---|---|---|---|---|---|
| **PPMI** | 395 | 176 | 571 | 33.92 | 11.03 | 61.56 (9.47) | 68.47 (10.21) |
| **PDBP cases & controls** | 776 | 391 | 1167 | 35.82 | 18.25 | 59.79 (10.03) | 63.49 (10.68) |
| **HBS cases & controls** | 618 | NA | 618 | 35.44 | NA | 62.04 (10.47) | NA |
| **BioFind cases & non-cases** | 95 | 68 | 163 | 34.74 | 18.40 | 61.42 (6.63) | 69.88 (7.34) |
| **NABEC controls** | NA | 253 | 253 | NA | 38.34 | NA | 54.38 (24.48) |
| **UKBEC controls** | NA | 72 | 72 | NA | 23.61 | NA | 56.88 (18.63) |
| **PD Clinical cases** | 497 | NA | 497 | 39.84 | NA | 55.71 (11.61) | NA |
| **PD Path cases** | 204 | NA | 204 | 36.76 | NA | 78.77 (8.72) | NA |
| **Wellderly controls** | NA | 1104 | 1104 | NA | 59.96 | NA | 85.03 (4.28) |
| **BLSA controls** | NA | 715 | 715 | NA | 47.55 | NA | 76.51 (11.46) |
| TOTAL | **2585** | **2779** | **5364** | | | | |
| SD: standard deviation; NA: Not available | | | | | | | |

## Supplementary Table 2: Summary of the validated SV in LD with PD risk variants

| GATK-SV_ID | TYPE | LENGTH | NEAREST GENE | CHR | START | STOP | PD RISK SNV TAG LD | R2 | D' | DISTANCE SV TO SNV bp | LRS VALIDATED |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PD_DEL_chr4_14749 | DEL | 417 | NEK1 | chr4 | 169357313 | 169357730 | rs62333164 | 0.331166 | 0.81627 | 304,276 | Yes |
| PD_DEL_chr6_2338 | DEL | 325 | ZSCAN9 | chr6 | 28222429 | 28222754 | rs4140646 | 0.203208 | 0.654587 | 451,407 | Yes |
| PD_DEL_chr20_597 | DEL | 1950 | LRRN4 | chr20 | 6045003 | 6046953 | rs77351827 | 0.889976 | 0.952148 | 21,558 | Yes |

## Supplementary Table 3: LRS ONT Sequencing run information for the PPMI samples

| | PPMI Blood LRS | | | | |
|---|---|---|---|---|---|
| **Sample ID** | **n50** | **Total output GB** | **Chimera Rate%** | **Total Coverage** | **"PASS" SV discovered with Sniffles2 in LRS** |
| **PPMI3404** | 34.27 | 118.74 | 1.69 | 30.33 | 33362 |
| **PPMI4018** | 34.81 | 107.87 | 1.68 | 27.43 | 37506 |
| **PPMI3223** | 35.31 | 122.74 | 1.34 | 32.20 | 33084 |
| **PPMI3173** | 33.43 | 148.27 | 1.94 | 38.47 | 33159 |
| **PPMI3150** | 39.06 | 127.36 | 2.00 | 34.76 | 32783 |
| **PPMI4011** | 42.62 | 111.95 | 1.78 | 32.58 | 33260 |
| **PPMI3951** | 41.05 | 104.37 | 3.04 | 30.69 | 32901 |
| **PPMI3469** | 34.31 | 130.48 | 2.02 | 38.16 | 33027 |
| | | | | | |
| **Average=** | 36.86 | 121.47 | 1.94 | 33.08 | 33635 |

**Supplementary Table 4: Summary statistics from the SV GWAS**

| CHR | GATK-SV_ID | POSITION(hg38) | SV_LENGTH | A1 | A2 | FREQ_CASES | FREQ_CONTROLS | P_VALUE | BONF | OR | SE | beta |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | PD_INS_chr10_732 | 20546251 | 85 | <INS> | N | 0.2663 | 0.6116 | 2.52E-27 | 7.94E-24 | 0.458825 | 0.0719466 | -0.7790864 |
| 12 | D_INS_chr12_4028 | 128085007 | 128 | <INS> | N | 0.0354 | 0.2513 | 4.27E-21 | 1.35E-17 | 0.389287 | 0.100092 | -0.9434384 |
| 12 | D_INS_chr12_4027 | 128085006 | 113 | <INS> | N | 0.0354 | 0.2515 | 3.69E-20 | 1.16E-16 | 0.375289 | 0.106564 | -0.9800589 |
| 4 | D_DUP_chr4_5736 | 148366424 | 79 | N | <DUP> | 0.04932 | 0.00522 | 1.10E-08 | 3.45E-05 | 3.86466 | 0.236537 | 1.35187371 |
| 17 | D_DEL_chr17_4739 | 45495980 | 56000 | <DEL> | N | 0.1816 | 0.2339 | 1.48E-08 | 4.67E-05 | 0.688686 | 0.0658522 | -0.3729698 |
| 17 | D_DEL_chr17_4744 | 45559980 | 18020 | <DEL> | N | 0.1812 | 0.2335 | 3.16E-08 | 9.96E-05 | 0.693831 | 0.0660702 | -0.3655269 |
| 3 | PD_INS_chr3_574 | 18827184 | 87 | <INS> | N | 0.2795 | 0.3152 | 5.18E-08 | 0.00016351 | 0.596164 | 0.0949956 | -0.5172395 |
| 3 | PD_DEL_chr3_1795 | 18827042 | 110 | <DEL> | N | 0.3099 | 0.339 | 5.73E-08 | 0.00018068 | 0.587199 | 0.0980993 | -0.5323915 |
| 7 | PD_DEL_chr7_5622 | 54396114 | 1017 | <DEL> | N | 0.006393 | 0.07184 | 4.47E-06 | 0.0140869 | 0.401792 | 0.198722 | -0.9118207 |
| 13 | D_DEL_chr13_4608 | 73147749 | 2591 | <DEL> | N | 0.03367 | 0.02051 | 1.90E-05 | 0.059827 | 2.02036 | 0.164444 | 0.70327571 |
| 3 | PD_INS_chr3_5657 | 189440563 | 143 | <INS> | N | 0.3656 | 0.5309 | 5.94E-05 | 0.187388 | 0.788733 | 0.0591082 | -0.2373274 |
| 3 | D_DUP_chr3_7804 | 185538669 | 87 | N | <DUP> | 0.08908 | 0.04284 | 8.75E-05 | 0.276019 | 1.56169 | 0.113634 | 0.44576857 |
| 21 | D_DEL_chr21_1195 | 10753940 | 984 | N | <DEL> | 0.03346 | 0.01331 | 0.00011549 | 0.364255 | 0.498751 | 0.18043 | -0.6956483 |
| 4 | PD_INS_chr4_56 | 827662 | 134 | N | <INS> | 0.4859 | 0.4912 | 0.00030766 | 0.97035 | 0.821214 | 0.0545813 | -0.1969715 |
| 10 | PD_CPX_chr10_1 | 600547 | 143 | <CPX> | N | 0.06035 | 0.05524 | 0.309694 | 1 | 1.12407 | 0.115126 | 0.11695603 |
| 10 | PD_CPX_chr10_107 | 74744656 | 880 | <CPX> | N | 0.01044 | 0.01026 | 0.348699 | 1 | 1.28784 | 0.26994 | 0.2529664 |
| 10 | PD_CPX_chr10_140 | 95448269 | 270 | <CPX> | N | 0.4023 | 0.4099 | 0.373424 | 1 | 0.953514 | 0.0534797 | -0.0476012 |
| 10 | PD_CPX_chr10_145 | 97699971 | 380 | <CPX> | N | 0.06654 | 0.07395 | 0.199259 | 1 | 1.14472 | 0.105292 | 0.13516007 |
| 10 | PD_CPX_chr10_176 | 122599975 | 645 | <CPX> | N | 0.02882 | 0.02573 | 0.314502 | 1 | 1.17686 | 0.161911 | 0.16284987 |
| 10 | PD_CPX_chr10_192 | 130837415 | 2996 | <CPX> | N | 0.1143 | 0.1024 | 0.154236 | 1 | 1.12653 | 0.0836215 | 0.11914211 |
| 10 | PD_CPX_chr10_193 | 131278556 | 3235 | <CPX> | N | 0.0325 | 0.03041 | 0.147032 | 1 | 1.24026 | 0.148489 | 0.21532104 |
| 10 | PD_CPX_chr10_58 | 41833395 | 340 | <CPX> | N | 0.07273 | 0.07593 | 0.920842 | 1 | 1.00987 | 0.0988108 | 0.00982161 |
| 10 | PD_CPX_chr10_64 | 44928688 | 286 | <CPX> | N | 0.1888 | 0.1846 | 0.24062 | 1 | 1.08134 | 0.0666409 | 0.07820101 |
| 10 | PD_CPX_chr10_83 | 57497185 | 1038 | N | <CPX> | 0.1897 | 0.1988 | 0.158246 | 1 | 0.911015 | 0.0660499 | -0.0931959 |
| 11 | PD_CPX_chr11_33 | 24263178 | 3191 | <CPX> | N | 0.01412 | 0.01799 | 0.502163 | 1 | 0.86566 | 0.214969 | -0.1442631 |
| 11 | PD_CPX_chr11_37 | 25333802 | 61 | <CPX> | N | 0.06596 | 0.06279 | 0.749685 | 1 | 1.03358 | 0.103508 | 0.0330285 |
| 11 | PD_CPX_chr11_81 | 49858223 | 27910 | <CPX> | N | 0.0559 | 0.05056 | 0.354118 | 1 | 1.11667 | 0.119089 | 0.11035104 |
| 11 | PD_CPX_chr11_83 | 50146991 | 185091 | <CPX> | N | 0.1687 | 0.1761 | 0.0347348 | 1 | 0.861754 | 0.0704666 | -0.1487854 |
| 11 | PD_CPX_chr11_97 | 66251227 | 1223 | <CPX> | N | 0.354 | 0.3728 | 0.590361 | 1 | 0.970939 | 0.0547847 | -0.0294916 |
| 12 | PD_CPX_chr12_100 | 72845798 | 2258 | <CPX> | N | 0.1768 | 0.1886 | 0.63626 | 1 | 0.968199 | 0.0683345 | -0.0323176 |
| 12 | PD_CPX_chr12_129 | 93501896 | 249 | <CPX> | N | 0.1576 | 0.1612 | 0.986952 | 1 | 0.998837 | 0.0711798 | -0.0011637 |
| 12 | PD_CPX_chr12_170 | 127001817 | 51 | <CPX> | N | 0.1501 | 0.154 | 0.97821 | 1 | 1.00207 | 0.0757661 | 0.00206786 |
| 12 | PD_CPX_chr12_38 | 27942505 | 2967 | <CPX> | N | 0.04217 | 0.03706 | 0.618729 | 1 | 1.07153 | 0.138829 | 0.06908753 |
| 12 | PD_CPX_chr12_48 | 37924183 | 540 | <CPX> | N | 0.3876 | 0.3699 | 0.0209779 | 1 | 1.13191 | 0.0536778 | 0.12390647 |
| 12 | PD_CPX_chr12_82 | 63191236 | 566 | <CPX> | N | 0.01451 | 0.01421 | 0.0684678 | 1 | 1.48695 | 0.217753 | 0.39672704 |
| 13 | PD_CPX_chr13_111 | 99870365 | 108 | <CPX> | N | 0.04112 | 0.04327 | 0.215383 | 1 | 0.846805 | 0.13422 | -0.1662848 |
| 13 | PD_CPX_chr13_72 | 73162806 | 165 | <CPX> | N | 0.07099 | 0.06369 | 0.825018 | 1 | 1.02454 | 0.109666 | 0.02424373 |
| 14 | PD_CPX_chr14_22 | 39645473 | 120 | <CPX> | N | 0.02805 | 0.03077 | 0.908566 | 1 | 1.01827 | 0.157661 | 0.01810511 |
| 14 | PD_CPX_chr14_4 | 25142260 | 2258 | <CPX> | N | 0.01702 | 0.01134 | 0.137147 | 1 | 1.37538 | 0.214416 | 0.31873006 |
| 14 | PD_CPX_chr14_72 | 63350176 | 99 | <CPX> | N | 0.1049 | 0.1002 | 0.0645152 | 1 | 1.1742 | 0.0868701 | 0.16058706 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | PD_CPX_chr15_119 | 95148443 | 1083 | <CPX> | N | 0.07099 | 0.07413 | 0.161482 | 1 | 0.865836 | 0.102893 | -0.1440598 |
| 15 | PD_CPX_chr15_121 | 98107635 | 895212 | <CPX> | N | 0.05145 | 0.04156 | 0.0391947 | 1 | 1.30289 | 0.128305 | 0.26458487 |
| 15 | PD_CPX_chr15_22 | 28852119 | 264515 | <CPX> | N | 0.01025 | 0.01277 | 0.0324266 | 1 | 0.582655 | 0.252516 | -0.54016 |
| 15 | PD_CPX_chr15_49 | 44876374 | 133941 | <CPX> | N | 0.02186 | 0.01925 | 0.101759 | 1 | 1.38056 | 0.197075 | 0.32248921 |
| 15 | PD_CPX_chr15_59 | 52096199 | 154 | <CPX> | N | 0.1046 | 0.1071 | 0.556984 | 1 | 1.05159 | 0.0856488 | 0.0503033 |
| 15 | PD_CPX_chr15_69 | 65116434 | 417 | <CPX> | N | 0.009478 | 0.01223 | 0.109075 | 1 | 0.654226 | 0.264797 | -0.4243024 |
| 15 | PD_CPX_chr15_84 | 77894603 | 933 | <CPX> | N | 0.009091 | 0.01116 | 0.63223 | 1 | 0.881322 | 0.263967 | -0.1263322 |
| 16 | PD_CPX_chr16_107 | 82601104 | 2842 | <CPX> | N | 0.01199 | 0.009896 | 0.223849 | 1 | 1.34571 | 0.244104 | 0.29692175 |
| 16 | PD_CPX_chr16_118 | 88501232 | 84 | <CPX> | N | 0.119 | 0.1242 | 0.642186 | 1 | 1.03884 | 0.0819999 | 0.03810471 |
| 16 | PD_CPX_chr16_34 | 20424476 | 174678 | <CPX> | N | 0.0147 | 0.01169 | 0.59859 | 1 | 1.1313 | 0.234344 | 0.12336741 |
| 16 | PD_CPX_chr16_98 | 78004631 | 182 | <CPX> | N | 0.1191 | 0.1204 | 0.256623 | 1 | 1.09482 | 0.0798549 | 0.09058997 |
| 18 | PD_CPX_chr18_69 | 63658528 | 229 | <CPX> | N | 0.01528 | 0.02015 | 0.324103 | 1 | 0.814887 | 0.207599 | -0.2047058 |
| 18 | PD_CPX_chr18_71 | 64696744 | 352 | <CPX> | N | 0.01586 | 0.02231 | 0.579934 | 1 | 0.89929 | 0.191786 | -0.1061497 |
| 19 | PD_CPX_chr19_30 | 6296866 | 34632 | <CPX> | N | 0.02128 | 0.01907 | 0.246394 | 1 | 0.801142 | 0.191275 | -0.2217171 |
| 1 | PD_CPX_chr1_12 | 3999598 | 183 | <CPX> | N | 0.03528 | 0.03446 | 0.890662 | 1 | 1.02051 | 0.147693 | 0.0203025 |
| 1 | PD_CPX_chr1_146 | 86673283 | 875 | <CPX> | N | 0.04603 | 0.04678 | 0.793197 | 1 | 0.966601 | 0.129574 | -0.0339695 |
| 1 | PD_CPX_chr1_224 | 161697925 | 555 | <CPX> | N | 0.0354 | 0.04102 | 0.518276 | 1 | 0.915238 | 0.137106 | -0.0885711 |
| 1 | PD_CPX_chr1_247 | 186257581 | 409 | <CPX> | N | 0.04565 | 0.04822 | 0.850158 | 1 | 0.975971 | 0.128745 | -0.0243224 |
| 1 | PD_CPX_chr1_248 | 187495696 | 1901 | N | <CPX> | 0.2188 | 0.2227 | 0.525942 | 1 | 1.04136 | 0.0639014 | 0.04052755 |
| 1 | PD_CPX_chr1_266 | 196775942 | 275 | <CPX> | N | 0.1542 | 0.1562 | 0.258336 | 1 | 1.08929 | 0.0756656 | 0.08552611 |
| 1 | PD_CPX_chr1_3 | 1499897 | 636 | <CPX> | N | 0.01673 | 0.01793 | 0.801908 | 1 | 0.951143 | 0.199661 | -0.0500909 |
| 1 | PD_CPX_chr1_308 | 231831817 | 131 | <CPX> | N | 0.02708 | 0.02645 | 0.0774847 | 1 | 1.34299 | 0.167036 | 0.29489847 |
| 1 | PD_CPX_chr1_343 | 247991172 | 1360 | <CPX> | N | 0.05996 | 0.05632 | 0.844706 | 1 | 1.02287 | 0.115447 | 0.0226124 |
| 1 | PD_CPX_chr1_35 | 16545311 | 218231129 | N | <CPX> | 0.02495 | 0.04678 | 0.535534 | 1 | 0.91135 | 0.149824 | -0.0928283 |
| 1 | PD_CPX_chr1_37 | 16625298 | 218151142 | N | <CPX> | 0.0236 | 0.02339 | 0.768819 | 1 | 0.950539 | 0.172585 | -0.0507261 |
| 1 | PD_CPX_chr1_89 | 44355904 | 1594 | <CPX> | N | 0.04217 | 0.04282 | 0.798212 | 1 | 1.03369 | 0.129616 | 0.03313492 |
| 20 | PD_CPX_chr20_37 | 17416602 | 75 | <CPX> | N | 0.01315 | 0.01205 | 0.162527 | 1 | 1.39278 | 0.237216 | 0.33130175 |
| 20 | PD_CPX_chr20_72 | 44677205 | 6369 | <CPX> | N | 0.2621 | 0.2667 | 0.139281 | 1 | 1.09163 | 0.0593028 | 0.08767199 |
| 20 | PD_CPX_chr20_8 | 3378828 | 4769 | <CPX> | N | 0.02186 | 0.02267 | 0.829549 | 1 | 1.03997 | 0.182029 | 0.03919187 |
| 22 | PD_CPX_chr22_30 | 36533058 | 5176 | <CPX> | N | 0.01044 | 0.01331 | 0.088023 | 1 | 0.664083 | 0.239958 | -0.4093481 |
| 22 | PD_CPX_chr22_4 | 18948079 | 532 | <CPX> | N | 0.02515 | 0.02699 | 0.723965 | 1 | 0.943291 | 0.165306 | -0.0583805 |
| 22 | PD_CPX_chr22_53 | 49386590 | 1298 | <CPX> | N | 0.009671 | 0.01241 | 0.9793 | 1 | 1.00644 | 0.247469 | 0.00641935 |
| 22 | PD_CPX_chr22_6 | 18971177 | 586 | <CPX> | N | 0.07002 | 0.06819 | 0.141503 | 1 | 1.17031 | 0.106967 | 0.15726867 |
| 2 | PD_CPX_chr2_113 | 77091180 | 56 | <CPX> | N | 0.04371 | 0.04408 | 0.770422 | 1 | 1.03869 | 0.130074 | 0.0379603 |
| 2 | PD_CPX_chr2_116 | 79197377 | 1400 | <CPX> | N | 0.05609 | 0.05775 | 0.115779 | 1 | 0.832451 | 0.1166 | -0.1833809 |
| 2 | PD_CPX_chr2_214 | 152603405 | 1527 | <CPX> | N | 0.04623 | 0.04642 | 0.86341 | 1 | 1.02135 | 0.122788 | 0.02112528 |
| 2 | PD_CPX_chr2_227 | 159238782 | 4787 | <CPX> | N | 0.01741 | 0.01655 | 0.430991 | 1 | 1.16684 | 0.19594 | 0.15429924 |
| 2 | PD_CPX_chr2_278 | 195114661 | 5234 | <CPX> | N | 0.05996 | 0.05757 | 0.75056 | 1 | 1.03585 | 0.110785 | 0.03522235 |
| 2 | PD_CPX_chr2_30 | 18724883 | 179 | <CPX> | N | 0.2702 | 0.2796 | 0.486932 | 1 | 0.959396 | 0.0596258 | -0.0414514 |
| 2 | PD_CPX_chr2_321 | 223174982 | 178 | <CPX> | N | 0.053 | 0.05616 | 0.123817 | 1 | 0.834616 | 0.117472 | -0.1807835 |
| 2 | PD_CPX_chr2_333 | 229978764 | 1564 | <CPX> | N | 0.02998 | 0.03095 | 0.122585 | 1 | 1.26699 | 0.153266 | 0.23664401 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PD_CPX_chr2_70 | 50538734 | 361 | <CPX> | N | 0.0412 | 0.04048 | 0.571182 | 1 | 1.07669 | 0.13048 | 0.07389152 |
| 2 | PD_CPX_chr2_8 | 4157678 | 18210 | <CPX> | N | 0.1735 | 0.1763 | 0.653245 | 1 | 1.0316 | 0.0692389 | 0.031111 |
| 2 | PD_CPX_chr2_83 | 61473617 | 2706 | <CPX> | N | 0.3615 | 0.3544 | 0.339023 | 1 | 0.94775 | 0.0561283 | -0.0536645 |
| 3 | PD_CPX_chr3_127 | 82825601 | 428 | <CPX> | N | 0.03424 | 0.03526 | 0.645333 | 1 | 1.06449 | 0.135778 | 0.06249581 |
| 3 | PD_CPX_chr3_151 | 103498236 | 132 | <CPX> | N | 0.01182 | 0.0128 | 0.760482 | 1 | 1.07771 | 0.245499 | 0.07483842 |
| 3 | PD_CPX_chr3_186 | 127777672 | 1401 | <CPX> | N | 0.113 | 0.106 | 0.597844 | 1 | 0.957309 | 0.0827077 | -0.0436291 |
| 3 | PD_CPX_chr3_268 | 188011108 | 540 | <CPX> | N | 0.1209 | 0.1438 | 0.202878 | 1 | 0.905353 | 0.0780863 | -0.0994304 |
| 3 | PD_CPX_chr3_39 | 23319664 | 369 | <CPX> | N | 0.08278 | 0.08603 | 0.28511 | 1 | 0.901842 | 0.0966557 | -0.1033159 |
| 3 | PD_CPX_chr3_67 | 37408437 | 234 | <CPX> | N | 0.03308 | 0.03221 | 0.76921 | 1 | 1.04609 | 0.153559 | 0.0450594 |
| 3 | PD_CPX_chr3_8 | 7358352 | 740 | <CPX> | N | 0.07466 | 0.06765 | 0.328205 | 1 | 1.10681 | 0.103794 | 0.101482 |
| 4 | PD_CPX_chr4_130 | 87153587 | 4626 | <CPX> | N | 0.01547 | 0.01673 | 0.789137 | 1 | 1.05503 | 0.200307 | 0.0535692 |
| 4 | PD_CPX_chr4_16 | 9473358 | 499 | <CPX> | N | 0.01589 | 0.01947 | 0.208245 | 1 | 0.771464 | 0.206185 | -0.2594653 |
| 4 | PD_CPX_chr4_167 | 115245751 | 10273 | <CPX> | N | 0.04603 | 0.04948 | 0.464316 | 1 | 0.910696 | 0.127838 | -0.0935461 |
| 4 | PD_CPX_chr4_213 | 147032790 | 196 | <CPX> | N | 0.04934 | 0.05112 | 0.42645 | 1 | 1.10184 | 0.121952 | 0.09698151 |
| 4 | PD_CPX_chr4_250 | 178333677 | 133 | <CPX> | N | 0.1946 | 0.1967 | 0.0451492 | 1 | 1.14394 | 0.0671306 | 0.13447844 |
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| 10 | D_DEL_chr10_374 | 41781267 | 564 | <DEL> | N | 0.05519 | 0.06107 | 0.786204 | 1 | 0.969185 | 0.115393 | -0.0312998 |
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| 10 | D_DEL_chr10_711 | 79714368 | 30416 | <DEL> | N | 0.3207 | 0.318 | 0.333375 | 1 | 1.05623 | 0.0565579 | 0.05470596 |
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| 10 | D_DEL_chr10_8468 | 97275116 | 2524 | N | <DEL> | 0.01779 | 0.009716 | 0.835048 | 1 | 1.0497 | 0.232928 | 0.04850441 |
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| 10 | D_DEL_chr10_9064 | 105296534 | 6065 | <DEL> | N | 0.09014 | 0.1002 | 0.489106 | 1 | 1.06554 | 0.0917709 | 0.06348171 |
| 10 | D_DEL_chr10_9171 | 106270563 | 2220 | N | <DEL> | 0.36 | 0.3665 | 0.825791 | 1 | 0.987947 | 0.0550914 | -0.0121262 |
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| 12 | D_DEL_chr12_800 | 90452612 | 187 | N | <DEL> | 0.05996 | 0.05254 | 0.766522 | 1 | 1.03475 | 0.11504 | 0.03415985 |
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| 13 | D_DEL_chr13_2889 | 55367047 | 286 | N | <DEL> | 0.2812 | 0.2607 | 0.254561 | 1 | 1.0705 | 0.0597906 | 0.06812583 |
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| 1 | D_DEL_chr1_1292 | 160724455 | 345 | <DEL> | N | 0.03101 | 0.03206 | 0.112348 | 1 | 1.26548 | 0.148295 | 0.2354515 |
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| 1 | D_DEL_chr1_1809 | 225815115 | 324 | <DEL> | N | 0.2964 | 0.3059 | 0.794592 | 1 | 0.984722 | 0.059134 | -0.0153959 |
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| 1 | PD_DEL_chr1_8133 | 82576971 | 310 | N | <DEL> | 0.3721 | 0.3309 | 0.492181 | 1 | 1.04003 | 0.0571407 | 0.03924956 |
| 1 | PD_DEL_chr1_8142 | 82660293 | 1593 | N | <DEL> | 0.113 | 0.0968 | 0.786535 | 1 | 0.976729 | 0.0869465 | -0.023546 |
| 1 | PD_DEL_chr1_8208 | 83339110 | 11363 | <DEL> | N | 0.01414 | 0.01385 | 0.375884 | 1 | 1.20741 | 0.21285 | 0.18847757 |
| 1 | PD_DEL_chr1_8415 | 86275303 | 711 | N | <DEL> | 0.2478 | 0.2218 | 0.523689 | 1 | 1.04001 | 0.0615146 | 0.03923033 |
| 1 | PD_DEL_chr1_8784 | 91448554 | 439 | N | <DEL> | 0.3956 | 0.3969 | 0.196037 | 1 | 1.07341 | 0.0547884 | 0.0708405 |
| 1 | PD_DEL_chr1_9986 | 105324161 | 261 | <DEL> | N | 0.4574 | 0.4615 | 0.778076 | 1 | 0.984833 | 0.0542302 | -0.0152832 |
| 20 | D_DEL_chr20_1103 | 12360674 | 2618 | <DEL> | N | 0.01589 | 0.02037 | 0.568622 | 1 | 0.892323 | 0.199844 | -0.1139271 |
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| 20 | D_DEL_chr20_1752 | 19154873 | 53 | N | <DEL> | 0.3364 | 0.3406 | 0.111444 | 1 | 0.913282 | 0.0569886 | -0.0907106 |
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| 20 | D_DEL_chr20_2012 | 22674701 | 311 | <DEL> | N | 0.2875 | 0.2902 | 0.837853 | 1 | 1.01227 | 0.0595898 | 0.01219533 |
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| 20 | D_DEL_chr20_4401 | 54083277 | 95 | <DEL> | N | 0.02227 | 0.02252 | 0.820424 | 1 | 1.0392 | 0.169394 | 0.03845119 |
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| 20 | D_DEL_chr20_456 | 55859567 | 5993 | <DEL> | N | 0.0441 | 0.02375 | 0.139445 | 1 | 1.24693 | 0.149326 | 0.22068453 |
| 20 | D_DEL_chr20_468 | 57012329 | 495 | <DEL> | N | 0.04178 | 0.04104 | 0.793739 | 1 | 0.966411 | 0.130677 | -0.0341661 |
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| 21 | D_DEL_chr21_101 | 10673466 | 50 | <DEL> | N | 0.01227 | 0.0123 | 0.509576 | 1 | 0.848435 | 0.249222 | -0.1643618 |
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| 21 | PD_DEL_chr21_126 | 6374502 | 493 | N | <DEL> | 0.4062 | 0.3919 | 0.896171 | 1 | 1.007 | 0.0534889 | 0.00697561 |
| 21 | D_DEL_chr21_128 | 13117746 | 77 | <DEL> | N | 0.01494 | 0.01155 | 0.981414 | 1 | 1.00543 | 0.232398 | 0.00541531 |
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| 21 | D_DEL_chr21_249 | 24337874 | 417 | <DEL> | N | 0.3478 | 0.3429 | 0.53429 | 1 | 1.03581 | 0.056608 | 0.03518373 |
| 21 | D_DEL_chr21_290 | 28841160 | 295 | <DEL> | N | 0.01279 | 0.01441 | 0.0686991 | 1 | 1.52611 | 0.232215 | 0.42272201 |
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| 2 | D_DEL_chr2_11079 | 122612418 | 347 | <DEL> | N | 0.2274 | 0.2276 | 0.262083 | 1 | 1.07176 | 0.0617915 | 0.06930216 |
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| 2 | D_DEL_chr2_1498 | 170135515 | 296 | N | <DEL> | 0.4536 | 0.4417 | 0.678316 | 1 | 1.02232 | 0.0532119 | 0.02207455 |
| 2 | D_DEL_chr2_1515 | 172139535 | 3211 | <DEL> | N | 0.346 | 0.3347 | 0.0317796 | 1 | 1.12799 | 0.0560897 | 0.12043729 |
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| 2 | D_DEL_chr2_1522 | 173333870 | 306 | <DEL> | N | 0.3391 | 0.3392 | 0.359349 | 1 | 1.05162 | 0.0549147 | 0.05033183 |
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| 2 | D_DEL_chr2_1543 | 176400917 | 6395 | N | <DEL> | 0.2077 | 0.1896 | 0.00693245 | 1 | 1.19429 | 0.0657579 | 0.17755187 |
| 2 | PD_DEL_chr2_1553 | 7989567 | 7475 | <DEL> | N | 0.01354 | 0.01026 | 0.174483 | 1 | 1.39357 | 0.244393 | 0.3318688 |
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| 2 | D_DEL_chr2_1810 | 209078187 | 6015 | <DEL> | N | 0.2878 | 0.2941 | 0.739857 | 1 | 1.01914 | 0.0570901 | 0.01895913 |
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| 2 | D_DEL_chr2_2023 | 233396915 | 649 | <DEL> | N | 0.01009 | 0.01045 | 0.0851985 | 1 | 1.55435 | 0.256235 | 0.44105745 |

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| 2 | D_DEL_chr2_20675 | 237645372 | 5178 | <DEL> | N | 0.01567 | 0.01493 | 0.785086 | 1 | 0.942209 | 0.218295 | -0.0595282 |
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| 3 | D_DEL_chr3_1155 | 146667403 | 9671 | N | <DEL> | 0.3037 | 0.3046 | 0.320086 | 1 | 1.05792 | 0.0566269 | 0.05630472 |
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| 3 | D_DEL_chr3_1177 | 149245583 | 6338 | <DEL> | N | 0.04218 | 0.04464 | 0.597426 | 1 | 0.93224 | 0.132863 | -0.070165 |
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| 3 | D_DEL_chr3_1262 | 160978481 | 2101 | <DEL> | N | 0.0118 | 0.01134 | 0.158491 | 1 | 1.41667 | 0.246999 | 0.34830905 |
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| 3 | D_DEL_chr3_1402 | 176169412 | 27696 | <DEL> | N | 0.01702 | 0.01512 | 0.306984 | 1 | 1.23774 | 0.208783 | 0.21328714 |
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| 3 | D_DEL_chr3_1438 | 179936553 | 463 | N | <DEL> | 0.4632 | 0.4955 | 0.650541 | 1 | 0.976817 | 0.0517789 | -0.023456 |
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| 3 | D_DEL_chr3_1501 | 186863244 | 4251 | N | <DEL> | 0.02843 | 0.01853 | 0.351747 | 1 | 0.843979 | 0.182159 | -0.1696277 |
| 3 | D_DEL_chr3_1504 | 187108877 | 304 | <DEL> | N | 0.4652 | 0.4736 | 0.624879 | 1 | 1.02588 | 0.0522611 | 0.02555078 |
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| 3 | D_DEL_chr3_1539 | 191423224 | 54 | <DEL> | N | 0.08204 | 0.08666 | 0.222271 | 1 | 0.894251 | 0.0915751 | -0.1117688 |
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| 3 | D_DEL_chr3_1557 | 193417675 | 7471 | <DEL> | N | 0.02108 | 0.02537 | 0.937932 | 1 | 0.986777 | 0.170943 | -0.0133112 |
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| 3 | PD_DEL_chr3_40 | 186799 | 5922 | <DEL> | N | 0.2056 | 0.222 | 0.826838 | 1 | 1.0142 | 0.0644421 | 0.01410012 |
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| 3 | PD_DEL_chr3_7898 | 99224962 | 5709 | <DEL> | N | 0.2124 | 0.2242 | 0.371282 | 1 | 0.944657 | 0.0636784 | -0.0569334 |
| 3 | PD_DEL_chr3_791 | 6608473 | 4531 | <DEL> | N | 0.1614 | 0.1647 | 0.91565 | 1 | 0.992356 | 0.0724451 | -0.0076734 |
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| 3 | PD_DEL_chr3_937 | 8177193 | 5330 | <DEL> | N | 0.01183 | 0.01172 | 0.214763 | 1 | 1.36112 | 0.248518 | 0.30830789 |
| 3 | PD_DEL_chr3_9389 | 117910401 | 198 | <DEL> | N | 0.1055 | 0.1082 | 0.818585 | 1 | 0.980627 | 0.0852943 | -0.0195631 |
| 3 | PD_DEL_chr3_9533 | 119701072 | 424 | <DEL> | N | 0.1297 | 0.1361 | 0.151821 | 1 | 0.89684 | 0.075972 | -0.1088778 |
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| 3 | PD_DEL_chr3_9906 | 125171209 | 766 | N | <DEL> | 0.06228 | 0.04912 | 0.251598 | 1 | 1.14408 | 0.117406 | 0.13460082 |
| 4 | D_DEL_chr4_10085 | 112548833 | 292 | N | <DEL> | 0.4673 | 0.443 | 0.0409453 | 1 | 1.11705 | 0.0541502 | 0.11069128 |
| 4 | D_DEL_chr4_10205 | 114253972 | 8707 | <DEL> | N | 0.4418 | 0.4455 | 0.31665 | 1 | 1.05476 | 0.053242 | 0.05331325 |
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| 4 | D_DEL_chr4_10251 | 114703452 | 262 | N | <DEL> | 0.05068 | 0.03275 | 0.0273397 | 1 | 0.738992 | 0.137072 | -0.3024682 |
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| 4 | D_DEL_chr4_10615 | 118375200 | 323 | <DEL> | N | 0.2946 | 0.2931 | 0.697685 | 1 | 0.977581 | 0.0583719 | -0.0226741 |
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| 4 | D_DEL_chr4_10910 | 122716596 | 144 | <DEL> | N | 0.3205 | 0.3177 | 0.375132 | 1 | 1.05246 | 0.0576523 | 0.05113028 |
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| 4 | D_DEL_chr4_11515 | 130773683 | 236 | N | <DEL> | 0.2443 | 0.2355 | 0.280975 | 1 | 0.935229 | 0.0621109 | -0.0669639 |
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| 4 | D_DEL_chr4_11899 | 134511847 | 2699 | N | <DEL> | 0.4671 | 0.473 | 0.468661 | 1 | 0.962231 | 0.0531298 | -0.0385007 |
| 4 | D_DEL_chr4_11962 | 135006396 | 306 | <DEL> | N | 0.3379 | 0.3392 | 0.430016 | 1 | 1.04426 | 0.0548777 | 0.0433085 |
| 4 | D_DEL_chr4_12182 | 137170850 | 8627 | <DEL> | N | 0.1619 | 0.1595 | 0.532213 | 1 | 1.04593 | 0.0718891 | 0.04490644 |
| 4 | D_DEL_chr4_12478 | 141309629 | 2279 | <DEL> | N | 0.4132 | 0.4255 | 0.827212 | 1 | 1.01152 | 0.0524693 | 0.01145415 |
| 4 | D_DEL_chr4_12535 | 142108392 | 55 | N | <DEL> | 0.365 | 0.3508 | 0.00072558 | 1 | 1.21384 | 0.0573388 | 0.19378889 |
| 4 | D_DEL_chr4_12786 | 145517661 | 1637 | <DEL> | N | 0.4344 | 0.4631 | 0.123662 | 1 | 0.918119 | 0.0554877 | -0.0854283 |
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| 4 | D_DEL_chr4_12896 | 146808715 | 1223 | <DEL> | N | 0.05691 | 0.05472 | 0.85955 | 1 | 1.02049 | 0.114647 | 0.0202829 |
| 4 | D_DEL_chr4_12959 | 147537804 | 52 | <DEL> | N | 0.2638 | 0.2654 | 0.678812 | 1 | 0.976014 | 0.0586307 | -0.0242783 |
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| 4 | D_DEL_chr4_1333 | 152174246 | 867 | <DEL> | N | 0.05851 | 0.05582 | 0.344884 | 1 | 0.897426 | 0.114577 | -0.1082246 |
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| 4 | D_DEL_chr4_1400 | 160957882 | 5909 | <DEL> | N | 0.1845 | 0.1788 | 0.83394 | 1 | 1.01443 | 0.0683485 | 0.01432688 |
| 4 | D_DEL_chr4_1414 | 162357224 | 3136 | <DEL> | N | 0.01012 | 0.01102 | 0.762911 | 1 | 1.07317 | 0.234101 | 0.07061689 |
| 4 | D_DEL_chr4_1422 | 163203866 | 413 | <DEL> | N | 0.1353 | 0.134 | 0.354242 | 1 | 0.93019 | 0.0781164 | -0.0723664 |
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| 4 | PD_DEL_chr4_3385 | 31336870 | 194 | N | <DEL> | 0.1271 | 0.1322 | 0.423426 | 1 | 0.940273 | 0.0769343 | -0.061585 |
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| 4 | PD_DEL_chr4_6760 | 71060700 | 144 | N | <DEL> | 0.2557 | 0.2526 | 0.526164 | 1 | 0.961291 | 0.0622803 | -0.0394781 |
| 4 | PD_DEL_chr4_6902 | 72686123 | 9260 | <DEL> | N | 0.03366 | 0.03041 | 0.489341 | 1 | 1.10961 | 0.150436 | 0.1040086 |
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| 4 | PD_DEL_chr4_7758 | 83300566 | 274 | N | <DEL> | 0.3222 | 0.3044 | 0.144362 | 1 | 0.920261 | 0.0569262 | -0.083098 |
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| 4 | PD_DEL_chr4_9276 | 102857866 | 4623 | <DEL> | N | 0.02205 | 0.01997 | 0.537978 | 1 | 1.12194 | 0.18682 | 0.11505933 |
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| 4 | PD_DEL_chr4_9555 | 106135421 | 6784 | <DEL> | N | 0.2565 | 0.2492 | 0.117194 | 1 | 1.0986 | 0.060021 | 0.09403664 |
| 4 | PD_DEL_chr4_9647 | 107142040 | 12848 | <DEL> | N | 0.03037 | 0.03077 | 0.0435524 | 1 | 1.35812 | 0.151657 | 0.30610139 |
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| 4 | PD_DEL_chr4_9990 | 111316365 | 4891 | <DEL> | N | 0.1275 | 0.1199 | 0.0574913 | 1 | 1.16967 | 0.0825143 | 0.15672166 |

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| 5 | D_DEL_chr5_10158 | 113545733 | 306 | <DEL> | N | 0.324 | 0.31 | 0.122939 | 1 | 1.09203 | 0.0570716 | 0.08803835 |
| 5 | D_DEL_chr5_10171 | 113820870 | 16232 | <DEL> | N | 0.01219 | 0.01241 | 0.862885 | 1 | 0.959606 | 0.238749 | -0.0412325 |
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| 5 | D_DEL_chr5_10199 | 114123358 | 305 | <DEL> | N | 0.3164 | 0.3332 | 0.530552 | 1 | 1.03655 | 0.0572366 | 0.03589789 |
| 5 | D_DEL_chr5_10286 | 114989663 | 9663 | <DEL> | N | 0.07466 | 0.04678 | 0.811936 | 1 | 1.02775 | 0.115024 | 0.02737195 |
| 5 | D_DEL_chr5_10340 | 115633589 | 525 | <DEL> | N | 0.3632 | 0.3669 | 0.677137 | 1 | 0.977555 | 0.0545211 | -0.0227007 |
| 5 | D_DEL_chr5_10546 | 118051404 | 6784 | <DEL> | N | 0.08608 | 0.08988 | 0.238281 | 1 | 0.895916 | 0.0932019 | -0.1099086 |
| 5 | D_DEL_chr5_10617 | 118539730 | 1940 | <DEL> | N | 0.007376 | 0.01279 | 0.270443 | 1 | 0.743104 | 0.269426 | -0.2969193 |
| 5 | D_DEL_chr5_10698 | 119121869 | 1101 | <DEL> | N | 0.01142 | 0.01062 | 0.739283 | 1 | 1.08907 | 0.256376 | 0.08532412 |
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| 5 | PD_DEL_chr5_893 | 1924477 | 611 | N | <DEL> | 0.1646 | 0.1733 | 0.0376106 | 1 | 0.864157 | 0.0702242 | -0.1460008 |
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| 5 | PD_DEL_chr5_9866 | 109961405 | 301 | <DEL> | N | 0.04292 | 0.04168 | 0.950337 | 1 | 1.00814 | 0.130222 | 0.00810705 |
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| 6 | D_DEL_chr6_1024 | 119275290 | 314 | <DEL> | N | 0.04191 | 0.0385 | 0.133473 | 1 | 1.22073 | 0.132915 | 0.19944904 |
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| 6 | D_DEL_chr6_1123 | 130638263 | 306 | <DEL> | N | 0.215 | 0.2203 | 0.264506 | 1 | 0.932246 | 0.062888 | -0.0701586 |
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| 7 | D_DEL_chr7_1049 | 102711259 | 16341 | <DEL> | N | 0.02227 | 0.0189 | 0.654607 | 1 | 1.08614 | 0.184693 | 0.08263013 |
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| 7 | PD_DEL_chr7_5725 | 55608886 | 1209 | <DEL> | N | 0.08301 | 0.07917 | 0.172798 | 1 | 1.14061 | 0.0965083 | 0.13156321 |
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| 8 | PD_DEL_chr8_2623 | 18618181 | 462 | <DEL> | N | 0.05439 | 0.04984 | 0.425924 | 1 | 1.09498 | 0.113969 | 0.0907361 |
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| 8 | PD_DEL_chr8_6742 | 75225899 | 57 | N | <DEL> | 0.4443 | 0.4419 | 0.910858 | 1 | 0.994055 | 0.0532555 | -0.0059627 |
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| 8 | PD_DEL_chr8_7922 | 88580095 | 885 | <DEL> | N | 0.02827 | 0.02737 | 0.0803271 | 1 | 1.33372 | 0.164669 | 0.28797203 |
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| 8 | PD_DEL_chr8_8887 | 101004961 | 182 | <DEL> | N | 0.02615 | 0.02826 | 0.911378 | 1 | 0.982562 | 0.158057 | -0.0175918 |
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| 9 | PD_DEL_chr9_3291 | 32315163 | 219 | N | <DEL> | 0.1826 | 0.1859 | 0.505906 | 1 | 1.04549 | 0.0668727 | 0.04448568 |
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| 9 | PD_DEL_chr9_673 | 6888787 | 300 | N | <DEL> | 0.4847 | 0.4919 | 0.614612 | 1 | 0.973236 | 0.0538797 | -0.0271287 |
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| 10 | D_DUP_chr10_426 | 86524713 | 96 | N | <DUP> | 0.1352 | 0.1055 | 0.696352 | 1 | 0.967428 | 0.0848549 | -0.0331143 |
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| 10 | D_DUP_chr10_514 | 103575639 | 87 | <DUP> | N | 0.01542 | 0.0167 | 0.14726 | 1 | 0.735942 | 0.211556 | -0.306604 |
| 10 | D_DUP_chr10_536 | 109704728 | 68 | <DUP> | N | 0.0615 | 0.06264 | 0.903787 | 1 | 0.987099 | 0.107419 | -0.0129849 |
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| 11 | D_DUP_chr11_359 | 66777043 | 77 | <DUP> | N | 0.01678 | 0.02132 | 0.691161 | 1 | 0.926439 | 0.192326 | -0.0764071 |
| 11 | D_DUP_chr11_453 | 80513610 | 87 | <DUP> | N | 0.07043 | 0.07798 | 0.385557 | 1 | 0.918166 | 0.098394 | -0.0853771 |
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| 11 | D_DUP_chr11_477 | 87154812 | 170 | <DUP> | N | 0.3114 | 0.3239 | 0.161502 | 1 | 1.08175 | 0.0561303 | 0.0785801 |
| 11 | D_DUP_chr11_478 | 87629210 | 56 | <DUP> | N | 0.01203 | 0.01353 | 0.0911041 | 1 | 0.672519 | 0.234804 | -0.3967249 |
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| 11 | D_DUP_chr11_538 | 103953140 | 78 | <DUP> | N | 0.01397 | 0.01751 | 0.266652 | 1 | 0.786736 | 0.215937 | -0.2398625 |
| 11 | D_DUP_chr11_543 | 105524331 | 195 | N | <DUP> | 0.06757 | 0.05662 | 0.432584 | 1 | 0.918617 | 0.108165 | -0.084886 |
| 11 | D_DUP_chr11_551 | 107781513 | 19412 | <DUP> | N | 0.0298 | 0.02267 | 0.0031379 | 1 | 1.65629 | 0.17082 | 0.50458016 |
| 11 | D_DUP_chr11_592 | 116497264 | 150 | <DUP> | N | 0.008537 | 0.01207 | 0.622149 | 1 | 1.14253 | 0.270381 | 0.1332451 |
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| 12 | D_DUP_chr12_137 | 23960482 | 63 | <DUP> | N | 0.028 | 0.03237 | 0.432844 | 1 | 0.886131 | 0.154131 | -0.1208905 |

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| 12 | D_DUP_chr12_139 | 24277447 | 72 | <DUP> | N | 0.4524 | 0.4975 | 0.698544 | 1 | 0.97936 | 0.0538508 | -0.020856 |
| 12 | D_DUP_chr12_194 | 39714094 | 60 | N | <DUP> | 0.1274 | 0.0951 | 0.482928 | 1 | 0.942946 | 0.0837343 | -0.0587463 |
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| 12 | D_DUP_chr12_637 | 130584715 | 84 | N | <DUP> | 0.5068 | 0.4883 | 0.135514 | 1 | 1.08352 | 0.0537387 | 0.080215 |
| 12 | D_DUP_chr12_644 | 7817912 | 104961 | <DUP> | N | 0.01342 | 0.0163 | 0.495265 | 1 | 0.85455 | 0.230484 | -0.1571803 |
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| 13 | D_DUP_chr13_113 | 42417355 | 70 | N | <DUP> | 0.4541 | 0.436 | 0.690118 | 1 | 1.02121 | 0.0526496 | 0.0209882 |
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| 13 | D_DUP_chr13_235 | 74358742 | 213 | <DUP> | N | 0.02039 | 0.02379 | 0.85852 | 1 | 0.968293 | 0.180751 | -0.0322206 |
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| 13 | D_DUP_chr13_284 | 89299372 | 50 | N | <DUP> | 0.06306 | 0.06369 | 0.744525 | 1 | 1.03731 | 0.112404 | 0.03663082 |
| 13 | D_DUP_chr13_295 | 93765232 | 76 | N | <DUP> | 0.4454 | 0.4393 | 0.402392 | 1 | 0.955954 | 0.053808 | -0.0450455 |
| 13 | D_DUP_chr13_312 | 98443847 | 51 | N | <DUP> | 0.147 | 0.1249 | 0.786294 | 1 | 1.022 | 0.0802506 | 0.02176149 |

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| 13 | D_DUP_chr13_360 | 110252655 | 54 | <DUP> | N | 0.334 | 0.469 | 0.019281 | 1 | 0.873487 | 0.0578032 | -0.135262 |
| 13 | D_DUP_chr13_363 | 110479396 | 67 | N | <DUP> | 0.2069 | 0.2098 | 0.622394 | 1 | 0.967701 | 0.0666694 | -0.0328321 |
| 13 | D_DUP_chr13_387 | 112455454 | 54 | <DUP> | N | 0.02024 | 0.02026 | 0.546097 | 1 | 0.891215 | 0.190799 | -0.1151696 |
| 13 | D_DUP_chr13_388 | 112625050 | 111 | <DUP> | N | 0.02975 | 0.02821 | 0.907283 | 1 | 1.01749 | 0.148899 | 0.01733881 |
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| 13 | D_DUP_chr13_413 | 113803881 | 71 | N | <DUP> | 0.3589 | 0.332 | 0.262385 | 1 | 1.06399 | 0.0553393 | 0.06202599 |
| 13 | D_DUP_chr13_417 | 113945932 | 116 | <DUP> | N | 0.1784 | 0.1832 | 0.452358 | 1 | 0.948949 | 0.0697285 | -0.0524002 |
| 13 | PD_DUP_chr13_641 | 29696803 | 72 | <DUP> | N | 0.4515 | 0.4878 | 0.768034 | 1 | 1.01646 | 0.0553922 | 0.016326 |
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| 14 | D_DUP_chr14_150 | 54117857 | 62 | <DUP> | N | 0.08664 | 0.08375 | 0.471915 | 1 | 1.07098 | 0.0953215 | 0.06857412 |
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| 14 | D_DUP_chr14_227 | 70397966 | 68 | N | <DUP> | 0.4534 | 0.4294 | 0.78137 | 1 | 0.984979 | 0.0545319 | -0.015135 |
| 14 | D_DUP_chr14_236 | 72444757 | 125 | N | <DUP> | 0.2807 | 0.2757 | 0.463305 | 1 | 0.95876 | 0.0574218 | -0.0421145 |
| 14 | D_DUP_chr14_266 | 76407437 | 192 | <DUP> | N | 0.01009 | 0.01282 | 0.647654 | 1 | 1.12164 | 0.251175 | 0.1147919 |
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| 14 | PD_DUP_chr14_318 | 23900201 | 205 | N | <DUP> | 0.3157 | 0.3005 | 0.452314 | 1 | 0.956391 | 0.0593278 | -0.0445885 |
| 14 | D_DUP_chr14_343 | 93722621 | 146 | <DUP> | N | 0.04149 | 0.04967 | 0.614526 | 1 | 0.938084 | 0.126912 | -0.0639158 |
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| 14 | D_DUP_chr14_417 | 103944150 | 70 | <DUP> | N | 0.02498 | 0.02099 | 0.248022 | 1 | 1.22338 | 0.174535 | 0.20161752 |
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| 15 | D_DUP_chr15_240 | 58087843 | 79 | <DUP> | N | 0.09907 | 0.1048 | 0.138064 | 1 | 0.878669 | 0.0872178 | -0.129347 |
| 15 | D_DUP_chr15_242 | 58484357 | 1127 | <DUP> | N | 0.06797 | 0.08426 | 0.00399084 | 1 | 0.746883 | 0.101375 | -0.2918467 |
| 15 | D_DUP_chr15_303 | 68807365 | 53 | <DUP> | N | 0.01245 | 0.01534 | 0.751714 | 1 | 0.927196 | 0.238925 | -0.0755903 |
| 15 | D_DUP_chr15_331 | 73896202 | 80 | <DUP> | N | 0.4311 | 0.4387 | 0.913513 | 1 | 0.99431 | 0.0525775 | -0.0057062 |
| 15 | D_DUP_chr15_512 | 101387697 | 54 | N | <DUP> | 0.3245 | 0.3182 | 0.0635134 | 1 | 0.899387 | 0.0571476 | -0.1060419 |
| 15 | PD_DUP_chr15_517 | 27335126 | 88 | <DUP> | N | 0.01205 | 0.01608 | 0.0289916 | 1 | 0.612822 | 0.224254 | -0.4896808 |
| 16 | PD_DUP_chr16_144 | 919548 | 54 | <DUP> | N | 0.2622 | 0.2629 | 0.756888 | 1 | 1.01825 | 0.0584357 | 0.01808547 |
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| 16 | D_DUP_chr16_194 | 28813578 | 1570 | <DUP> | N | 0.02303 | 0.02645 | 0.928446 | 1 | 1.015 | 0.165752 | 0.01488861 |
| 16 | D_DUP_chr16_246 | 34076803 | 1058 | <DUP> | N | 0.01771 | 0.01902 | 0.532779 | 1 | 1.12763 | 0.192571 | 0.12011809 |
| 16 | D_DUP_chr16_246 | 34077207 | 927 | <DUP> | N | 0.05538 | 0.05718 | 0.980716 | 1 | 1.00277 | 0.114435 | 0.00276617 |
| 16 | D_DUP_chr16_249 | 34199633 | 6269 | <DUP> | N | 0.0261 | 0.01103 | 0.370958 | 1 | 1.19181 | 0.196133 | 0.17547316 |

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| 16 | D_DUP_chr16_287 | 48992038 | 203 | <DUP> | N | 0.02646 | 0.03437 | 0.145167 | 1 | 0.80294 | 0.150654 | -0.2194753 |
| 16 | D_DUP_chr16_400 | 69820782 | 4336 | <DUP> | N | 0.3616 | 0.3587 | 0.268338 | 1 | 0.941315 | 0.0546656 | -0.0604774 |
| 16 | D_DUP_chr16_401 | 69919131 | 108 | N | <DUP> | 0.3259 | 0.3222 | 0.69246 | 1 | 0.978097 | 0.0559928 | -0.0221464 |
| 16 | D_DUP_chr16_419 | 2939470 | 67 | <DUP> | N | 0.04614 | 0.0409 | 0.158876 | 1 | 1.19324 | 0.125403 | 0.1766723 |
| 16 | D_DUP_chr16_446 | 78294719 | 58 | <DUP> | N | 0.1256 | 0.1212 | 0.564869 | 1 | 0.955348 | 0.0793607 | -0.0456796 |
| 16 | D_DUP_chr16_486 | 84644229 | 53 | <DUP> | N | 0.01477 | 0.01466 | 0.179668 | 1 | 1.3408 | 0.218566 | 0.29326645 |
| 16 | D_DUP_chr16_488 | 85004679 | 155 | <DUP> | N | 0.02894 | 0.0318 | 0.782454 | 1 | 0.957466 | 0.157412 | -0.0434651 |
| 16 | D_DUP_chr16_536 | 88862544 | 60 | <DUP> | N | 0.3344 | 0.3498 | 0.449937 | 1 | 1.04417 | 0.0572115 | 0.04322231 |
| 16 | D_DUP_chr16_537 | 88864106 | 84 | <DUP> | N | 0.02165 | 0.02384 | 0.318286 | 1 | 1.18978 | 0.17412 | 0.17376842 |
| 16 | D_DUP_chr16_538 | 88953435 | 58 | <DUP> | N | 0.009709 | 0.01102 | 0.978286 | 1 | 1.00714 | 0.261226 | 0.00711463 |
| 16 | D_DUP_chr16_541 | 89065587 | 82 | <DUP> | N | 0.03951 | 0.04035 | 0.622625 | 1 | 1.06867 | 0.134948 | 0.06641488 |
| 16 | D_DUP_chr16_546 | 89448145 | 70 | <DUP> | N | 0.01658 | 0.01948 | 0.159822 | 1 | 0.75886 | 0.196303 | -0.275938 |
| 17 | D_DUP_chr17_100 | 14852070 | 53 | <DUP> | N | 0.3408 | 0.3525 | 0.354502 | 1 | 1.05187 | 0.0546182 | 0.05056953 |
| 17 | D_DUP_chr17_111 | 16837477 | 106 | <DUP> | N | 0.03306 | 0.03321 | 0.645631 | 1 | 1.07016 | 0.147473 | 0.06780817 |
| 17 | D_DUP_chr17_175 | 29485512 | 2557 | <DUP> | N | 0.1284 | 0.1376 | 0.729318 | 1 | 0.973813 | 0.0766872 | -0.026536 |
| 17 | D_DUP_chr17_216 | 36989996 | 51 | <DUP> | N | 0.1591 | 0.1661 | 0.509837 | 1 | 1.04681 | 0.069417 | 0.04574744 |
| 17 | D_DUP_chr17_240 | 41375735 | 7247 | <DUP> | N | 0.01625 | 0.01566 | 0.617054 | 1 | 1.11067 | 0.209918 | 0.10496344 |
| 17 | D_DUP_chr17_262 | 44984759 | 582 | <DUP> | N | 0.008981 | 0.01101 | 0.033912 | 1 | 0.570795 | 0.264354 | -0.5607252 |
| 17 | D_DUP_chr17_334 | 1912936 | 1454 | <DUP> | N | 0.01141 | 0.0108 | 0.234767 | 1 | 1.35746 | 0.257217 | 0.30561531 |
| 17 | D_DUP_chr17_341 | 59447575 | 6531 | <DUP> | N | 0.01358 | 0.02447 | 0.00103798 | 1 | 0.523786 | 0.197154 | -0.6466721 |
| 17 | D_DUP_chr17_388 | 68680021 | 72 | <DUP> | N | 0.02675 | 0.03474 | 0.249669 | 1 | 0.831075 | 0.160739 | -0.1850352 |
| 17 | D_DUP_chr17_389 | 2719770 | 100 | N | <DUP> | 0.04603 | 0.03221 | 0.695105 | 1 | 0.94721 | 0.138375 | -0.0542345 |
| 17 | D_DUP_chr17_402 | 72685321 | 129 | <DUP> | N | 0.3979 | 0.4168 | 0.750901 | 1 | 0.982652 | 0.0551281 | -0.0175002 |
| 17 | D_DUP_chr17_427 | 75766919 | 302 | <DUP> | N | 0.02044 | 0.02078 | 0.902943 | 1 | 0.977826 | 0.183882 | -0.0224235 |
| 17 | D_DUP_chr17_449 | 78550343 | 71 | N | <DUP> | 0.2254 | 0.2148 | 0.555402 | 1 | 0.96369 | 0.0627217 | -0.0369856 |
| 17 | D_DUP_chr17_471 | 80630098 | 9995 | <DUP> | N | 0.01073 | 0.01249 | 0.696534 | 1 | 1.09843 | 0.240712 | 0.09388189 |
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| 18 | D_DUP_chr18_343 | 79520244 | 73 | <DUP> | N | 0.05545 | 0.0601 | 0.769927 | 1 | 1.03325 | 0.111824 | 0.03270917 |
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| 1 | PD_DUP_chr1_5711 | 89806291 | 63 | <DUP> | N | 0.4009 | 0.4066 | 0.670376 | 1 | 1.02319 | 0.0538896 | 0.0229252 |
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| 1 | PD_DUP_chr1_598 | 3408595 | 94 | <DUP> | N | 0.01442 | 0.01821 | 0.63085 | 1 | 1.11059 | 0.218286 | 0.10489141 |
| 1 | PD_DUP_chr1_6131 | 101784173 | 68 | <DUP> | N | 0.05338 | 0.05879 | 0.792736 | 1 | 0.970895 | 0.11241 | -0.029537 |
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| 1 | PD_DUP_chr1_7601 | 147488594 | 107 | <DUP> | N | 0.4575 | 0.4699 | 0.213213 | 1 | 1.06904 | 0.05363 | 0.06676105 |
| 1 | PD_DUP_chr1_772 | 5387173 | 206 | N | <DUP> | 0.04547 | 0.03259 | 0.846641 | 1 | 0.972525 | 0.144044 | -0.0278595 |
| 1 | PD_DUP_chr1_8103 | 152304720 | 4901 | <DUP> | N | 0.0113 | 0.009068 | 0.705468 | 1 | 1.10846 | 0.272452 | 0.10297166 |
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| 1 | PD_DUP_chr1_8781 | 162868611 | 119 | N | <DUP> | 0.2969 | 0.2758 | 0.944496 | 1 | 1.00416 | 0.0595763 | 0.00415137 |
| 1 | PD_DUP_chr1_8932 | 166176623 | 97 | <DUP> | N | 0.01219 | 0.0135 | 0.521245 | 1 | 0.870717 | 0.215829 | -0.1384383 |
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| 20 | D_DUP_chr20_272 | 56388093 | 61 | N | <DUP> | 0.1393 | 0.1336 | 0.168618 | 1 | 1.10925 | 0.0753178 | 0.10368411 |
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| 20 | PD_DUP_chr20_384 | 6852248 | 2321 | <DUP> | N | 0.01412 | 0.01169 | 0.201838 | 1 | 1.32389 | 0.21983 | 0.28057437 |
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| 21 | D_DUP_chr21_132 | 32482931 | 69 | N | <DUP> | 0.03733 | 0.02447 | 0.428511 | 1 | 0.883149 | 0.156947 | -0.1242613 |
| 21 | D_DUP_chr21_141 | 34037057 | 50 | <DUP> | N | 0.01007 | 0.01116 | 0.654294 | 1 | 1.12233 | 0.257723 | 0.11540688 |
| 21 | PD_DUP_chr21_147 | 7926705 | 70 | N | <DUP> | 0.2799 | 0.2726 | 0.957627 | 1 | 0.996829 | 0.0597698 | -0.003176 |
| 21 | D_DUP_chr21_153 | 36644632 | 53 | <DUP> | N | 0.01555 | 0.01137 | 0.114064 | 1 | 1.41705 | 0.220592 | 0.34857725 |
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| 21 | PD_DUP_chr21_194 | 7948098 | 89 | <DUP> | N | 0.01975 | 0.0179 | 0.0995692 | 1 | 1.3757 | 0.193672 | 0.31896269 |
| 21 | D_DUP_chr21_196 | 43823145 | 78 | N | <DUP> | 0.4601 | 0.4503 | 0.600564 | 1 | 0.971592 | 0.0550411 | -0.0288193 |
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| 21 | D_DUP_chr21_237 | 46645208 | 107 | N | <DUP> | 0.0416 | 0.01928 | 0.0244859 | 1 | 1.4574 | 0.167446 | 0.37665403 |
| 21 | PD_DUP_chr21_377 | 10691702 | 54 | <DUP> | N | 0.0126 | 0.01339 | 0.622492 | 1 | 0.891121 | 0.234145 | -0.1152751 |
| 21 | PD_DUP_chr21_382 | 10694421 | 100 | <DUP> | N | 0.01539 | 0.01769 | 0.489552 | 1 | 1.15101 | 0.203521 | 0.14063982 |
| 21 | PD_DUP_chr21_548 | 13872664 | 19580 | <DUP> | N | 0.2971 | 0.3078 | 0.321653 | 1 | 0.944419 | 0.0577009 | -0.0571854 |

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| 21 | PD_DUP_chr21_778 | 18684478 | 24231 | <DUP> | N | 0.01567 | 0.01691 | 0.884447 | 1 | 1.03166 | 0.214475 | 0.03116916 |
| 21 | PD_DUP_chr21_892 | 21559404 | 90 | <DUP> | N | 0.01893 | 0.0188 | 0.262998 | 1 | 1.24364 | 0.1948 | 0.21804256 |
| 21 | PD_DUP_chr21_931 | 22642560 | 61 | N | <DUP> | 0.3893 | 0.391 | 0.614817 | 1 | 0.972747 | 0.054911 | -0.0276313 |
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| 22 | D_DUP_chr22_112 | 30219963 | 83 | <DUP> | N | 0.01561 | 0.01814 | 0.668755 | 1 | 0.916818 | 0.20298 | -0.0868463 |
| 22 | D_DUP_chr22_150 | 37067818 | 72 | <DUP> | N | 0.3538 | 0.3637 | 0.602533 | 1 | 1.02916 | 0.0552033 | 0.02874294 |
| 22 | D_DUP_chr22_209 | 44926026 | 76 | <DUP> | N | 0.3917 | 0.409 | 0.98778 | 1 | 1.00086 | 0.05583 | 0.00085963 |
| 22 | PD_DUP_chr22_24 | 10716988 | 118 | <DUP> | N | 0.01446 | 0.01432 | 0.806195 | 1 | 0.945883 | 0.226776 | -0.0556364 |
| 22 | D_DUP_chr22_249 | 49748750 | 90 | <DUP> | N | 0.009926 | 0.01067 | 0.448215 | 1 | 1.23043 | 0.273425 | 0.2073637 |
| 22 | PD_DUP_chr22_357 | 19919729 | 63 | <DUP> | N | 0.1481 | 0.1531 | 0.886914 | 1 | 1.0102 | 0.0713865 | 0.01014833 |
| 22 | PD_DUP_chr22_409 | 20354676 | 7391 | <DUP> | N | 0.05706 | 0.1168 | 0.358997 | 1 | 1.10397 | 0.107831 | 0.09891277 |
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| 22 | PD_DUP_chr22_826 | 25068147 | 95 | <DUP> | N | 0.01543 | 0.01924 | 0.771678 | 1 | 0.944122 | 0.198151 | -0.0574999 |
| 22 | PD_DUP_chr22_875 | 26060912 | 77 | <DUP> | N | 0.08904 | 0.08854 | 0.432389 | 1 | 0.930223 | 0.092128 | -0.0723309 |
| 2 | D_DUP_chr2_1044 | 220523716 | 92 | N | <DUP> | 0.09702 | 0.08801 | 0.00522843 | 1 | 0.76998 | 0.093601 | -0.2613907 |
| 2 | D_DUP_chr2_1052 | 222915334 | 168 | <DUP> | N | 0.009507 | 0.01172 | 0.342411 | 1 | 0.76943 | 0.276071 | -0.2621053 |
| 2 | D_DUP_chr2_1063 | 226656425 | 77 | N | <DUP> | 0.03483 | 0.04374 | 0.177966 | 1 | 0.831052 | 0.137385 | -0.1850629 |
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| 2 | D_DUP_chr2_1073 | 229596912 | 81 | <DUP> | N | 0.03276 | 0.03215 | 0.330312 | 1 | 1.15346 | 0.146658 | 0.14276612 |
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| 2 | D_DUP_chr2_1117 | 235910216 | 69 | N | <DUP> | 0.1943 | 0.207 | 0.680677 | 1 | 0.973434 | 0.0654264 | -0.0269253 |
| 2 | D_DUP_chr2_1173 | 241016047 | 81 | <DUP> | N | 0.02566 | 0.03116 | 0.293585 | 1 | 0.84545 | 0.159852 | -0.1678862 |
| 2 | PD_DUP_chr2_1295 | 15428915 | 106 | <DUP> | N | 0.01807 | 0.01622 | 0.552652 | 1 | 0.887068 | 0.201812 | -0.1198336 |
| 2 | PD_DUP_chr2_174 | 1111804 | 1330 | <DUP> | N | 0.01598 | 0.008899 | 0.0378912 | 1 | 1.65928 | 0.243921 | 0.50638377 |
| 2 | PD_DUP_chr2_2472 | 38728121 | 17160 | <DUP> | N | 0.05846 | 0.06658 | 0.130172 | 1 | 1.18018 | 0.109471 | 0.16566697 |
| 2 | PD_DUP_chr2_2580 | 41858783 | 97 | <DUP> | N | 0.0117 | 0.01412 | 0.205081 | 1 | 1.34702 | 0.235081 | 0.29789475 |
| 2 | PD_DUP_chr2_2608 | 42441732 | 54 | N | <DUP> | 0.1335 | 0.1209 | 0.445116 | 1 | 0.940747 | 0.0799926 | -0.061081 |
| 2 | PD_DUP_chr2_3066 | 50538793 | 302 | <DUP> | N | 0.03645 | 0.03608 | 0.389197 | 1 | 1.13147 | 0.143447 | 0.12351767 |
| 2 | PD_DUP_chr2_3146 | 52100121 | 58 | N | <DUP> | 0.4428 | 0.4368 | 0.649206 | 1 | 0.976166 | 0.0530332 | -0.0241226 |
| 2 | PD_DUP_chr2_3228 | 54400050 | 66 | N | <DUP> | 0.3658 | 0.3649 | 0.363893 | 1 | 0.94998 | 0.0565157 | -0.0513143 |
| 2 | PD_DUP_chr2_3420 | 59542453 | 71 | N | <DUP> | 0.1517 | 0.1527 | 0.595673 | 1 | 0.961157 | 0.0746607 | -0.0396175 |
| 2 | PD_DUP_chr2_3642 | 63550707 | 74 | <DUP> | N | 0.01852 | 0.02186 | 0.481366 | 1 | 1.14422 | 0.191336 | 0.13472318 |
| 2 | PD_DUP_chr2_389 | 1751728 | 53 | <DUP> | N | 0.2924 | 0.3221 | 0.389949 | 1 | 0.952289 | 0.0568637 | -0.0488867 |
| 2 | PD_DUP_chr2_402 | 1831183 | 64 | <DUP> | N | 0.03613 | 0.0352 | 0.912044 | 1 | 1.01542 | 0.138534 | 0.01530232 |
| 2 | PD_DUP_chr2_4067 | 71662936 | 105 | N | <DUP> | 0.3058 | 0.2924 | 0.219088 | 1 | 1.07505 | 0.0588734 | 0.07236717 |
| 2 | PD_DUP_chr2_483 | 2645735 | 73 | <DUP> | N | 0.2687 | 0.2789 | 0.639283 | 1 | 0.972822 | 0.0587878 | -0.0275542 |
| 2 | PD_DUP_chr2_5148 | 96001109 | 8004 | <DUP> | N | 0.02882 | 0.03041 | 0.678251 | 1 | 0.938045 | 0.154168 | -0.0639574 |
| 2 | PD_DUP_chr2_6322 | 118136413 | 113 | N | <DUP> | 0.3131 | 0.2755 | 0.341636 | 1 | 1.05816 | 0.0594475 | 0.05653155 |
| 2 | PD_DUP_chr2_6901 | 128721564 | 368 | <DUP> | N | 0.01202 | 0.01134 | 0.629712 | 1 | 1.12191 | 0.238594 | 0.11503259 |
| 2 | PD_DUP_chr2_7035 | 130451336 | 2449 | <DUP> | N | 0.03496 | 0.03017 | 0.119419 | 1 | 0.785935 | 0.154687 | -0.2408812 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PD_DUP_chr2_7273 | 133893002 | 57 | <DUP> | N | 0.4565 | 0.4453 | 0.0244386 | 1 | 1.12668 | 0.0530065 | 0.11927526 |
| 2 | PD_DUP_chr2_738 | 6067293 | 68 | <DUP> | N | 0.3366 | 0.342 | 0.351937 | 1 | 0.950363 | 0.0546944 | -0.0509113 |
| 2 | PD_DUP_chr2_7523 | 140426461 | 5675 | <DUP> | N | 0.01528 | 0.02177 | 0.197843 | 1 | 0.776889 | 0.19605 | -0.2524578 |
| 2 | PD_DUP_chr2_7954 | 154675603 | 296 | <DUP> | N | 0.01997 | 0.02179 | 0.626688 | 1 | 1.09523 | 0.187021 | 0.09096439 |
| 2 | PD_DUP_chr2_8068 | 158548494 | 150 | <DUP> | N | 0.07054 | 0.07649 | 0.273668 | 1 | 0.896591 | 0.099717 | -0.1091555 |
| 2 | PD_DUP_chr2_8170 | 161074763 | 471 | <DUP> | N | 0.174 | 0.1736 | 0.887671 | 1 | 0.99015 | 0.0700782 | -0.0098988 |
| 2 | PD_DUP_chr2_8173 | 161226860 | 69 | N | <DUP> | 0.1899 | 0.1886 | 0.811863 | 1 | 0.984282 | 0.0665613 | -0.0158428 |
| 2 | PD_DUP_chr2_8699 | 176330346 | 79 | <DUP> | N | 0.01907 | 0.02802 | 0.504708 | 1 | 0.891719 | 0.171795 | -0.1146042 |
| 2 | PD_DUP_chr2_8776 | 178252182 | 57 | N | <DUP> | 0.4332 | 0.4292 | 0.748798 | 1 | 0.983251 | 0.0527842 | -0.0168909 |
| 2 | PD_DUP_chr2_8909 | 182289079 | 201 | <DUP> | N | 0.01341 | 0.01424 | 0.330487 | 1 | 1.24726 | 0.227051 | 0.22094915 |
| 2 | PD_DUP_chr2_9140 | 190137821 | 86 | N | <DUP> | 0.02418 | 0.02267 | 0.406606 | 1 | 0.864459 | 0.175509 | -0.1456514 |
| 2 | PD_DUP_chr2_9174 | 191154731 | 176 | <DUP> | N | 0.02295 | 0.02108 | 0.825944 | 1 | 1.03961 | 0.176637 | 0.03884564 |
| 2 | PD_DUP_chr2_9196 | 191699453 | 54 | <DUP> | N | 0.01222 | 0.01099 | 0.935563 | 1 | 1.01909 | 0.233894 | 0.01891007 |
| 2 | PD_DUP_chr2_9316 | 194353929 | 80 | N | <DUP> | 0.1285 | 0.1293 | 0.26669 | 1 | 0.913085 | 0.0818629 | -0.0909263 |
| 2 | PD_DUP_chr2_9543 | 200869962 | 56 | <DUP> | N | 0.02691 | 0.02546 | 0.635733 | 1 | 1.08332 | 0.168958 | 0.0800304 |
| 2 | PD_DUP_chr2_9814 | 206797589 | 6031 | <DUP> | N | 0.01238 | 0.01151 | 0.587209 | 1 | 1.1413 | 0.243455 | 0.13216796 |
| 2 | PD_DUP_chr2_9935 | 209955510 | 72 | <DUP> | N | 0.008527 | 0.01263 | 0.369567 | 1 | 0.787969 | 0.265576 | -0.2382965 |
| 3 | PD_DUP_chr3_1301 | 25249850 | 74 | <DUP> | N | 0.3016 | 0.3075 | 0.63996 | 1 | 0.973881 | 0.0566037 | -0.0264662 |
| 3 | PD_DUP_chr3_1576 | 33001152 | 50 | <DUP> | N | 0.01245 | 0.01497 | 0.363721 | 1 | 0.816372 | 0.223368 | -0.2028851 |
| 3 | PD_DUP_chr3_1766 | 37710037 | 1742 | <DUP> | N | 0.01051 | 0.009903 | 0.482158 | 1 | 1.20213 | 0.261938 | 0.18409498 |
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| 3 | PD_DUP_chr3_2119 | 44722641 | 91 | <DUP> | N | 0.01181 | 0.009366 | 0.341729 | 1 | 1.2606 | 0.243581 | 0.2315878 |
| 3 | PD_DUP_chr3_2248 | 47192287 | 23606 | <DUP> | N | 0.012 | 0.01692 | 0.0763036 | 1 | 0.667933 | 0.227676 | -0.4035674 |
| 3 | PD_DUP_chr3_2428 | 49246180 | 1657 | <DUP> | N | 0.05254 | 0.06281 | 0.203107 | 1 | 0.862335 | 0.116371 | -0.1481115 |
| 3 | PD_DUP_chr3_2756 | 53423275 | 60 | <DUP> | N | 0.02924 | 0.02404 | 0.316483 | 1 | 1.17211 | 0.158539 | 0.15880554 |
| 3 | PD_DUP_chr3_2809 | 54519020 | 84 | N | <DUP> | 0.3296 | 0.3228 | 0.526448 | 1 | 1.03644 | 0.0565096 | 0.03579176 |
| 3 | PD_DUP_chr3_284 | 6276226 | 19129 | <DUP> | N | 0.01277 | 0.01241 | 0.574618 | 1 | 1.1384 | 0.23095 | 0.12962377 |
| 3 | PD_DUP_chr3_2906 | 56596483 | 52 | <DUP> | N | 0.04767 | 0.04174 | 0.255167 | 1 | 0.864615 | 0.127843 | -0.145471 |
| 3 | PD_DUP_chr3_2921 | 56921364 | 71 | <DUP> | N | 0.08908 | 0.08974 | 0.616766 | 1 | 1.04661 | 0.0910269 | 0.04555637 |
| 3 | PD_DUP_chr3_3101 | 60280991 | 52 | N | <DUP> | 0.0648 | 0.05793 | 0.854722 | 1 | 1.02026 | 0.109561 | 0.0200575 |
| 3 | PD_DUP_chr3_3114 | 60860060 | 78 | <DUP> | N | 0.2897 | 0.3203 | 0.388821 | 1 | 0.951867 | 0.057243 | -0.04933 |
| 3 | PD_DUP_chr3_3330 | 66713348 | 138 | <DUP> | N | 0.3976 | 0.4117 | 0.997454 | 1 | 1.00017 | 0.0536533 | 0.00016999 |
| 3 | PD_DUP_chr3_3390 | 69171654 | 137 | <DUP> | N | 0.01142 | 0.01026 | 0.234656 | 1 | 0.751072 | 0.240864 | -0.2862538 |
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| 3 | PD_DUP_chr3_3767 | 77291229 | 5092 | <DUP> | N | 0.01855 | 0.01523 | 0.808978 | 1 | 0.951968 | 0.203617 | -0.0492239 |
| 3 | PD_DUP_chr3_3825 | 78638222 | 51 | <DUP> | N | 0.01851 | 0.01609 | 0.261138 | 1 | 1.2554 | 0.202413 | 0.22745425 |
| 3 | PD_DUP_chr3_3830 | 78904666 | 61 | <DUP> | N | 0.01147 | 0.01082 | 0.106782 | 1 | 1.50186 | 0.252167 | 0.40670434 |
| 3 | PD_DUP_chr3_4104 | 87322421 | 52 | <DUP> | N | 0.05242 | 0.04701 | 0.0931317 | 1 | 1.22288 | 0.11983 | 0.20120873 |
| 3 | PD_DUP_chr3_426 | 9086713 | 95 | <DUP> | N | 0.3337 | 0.3633 | 0.427647 | 1 | 1.04635 | 0.0571144 | 0.04530792 |
| 3 | PD_DUP_chr3_4296 | 99333358 | 50 | <DUP> | N | 0.02314 | 0.02246 | 0.536891 | 1 | 0.896973 | 0.176073 | -0.1087295 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | PD_DUP_chr3_4469 | 105167832 | 76 | <DUP> | N | 0.01949 | 0.02371 | 0.365303 | 1 | 0.846277 | 0.184367 | -0.1669085 |
| 3 | PD_DUP_chr3_4492 | 105608295 | 52 | N | <DUP> | 0.2232 | 0.2022 | 0.483248 | 1 | 1.04607 | 0.06424 | 0.04504029 |
| 3 | PD_DUP_chr3_4738 | 113320519 | 68 | <DUP> | N | 0.01212 | 0.01338 | 0.409237 | 1 | 1.21402 | 0.235011 | 0.19393717 |
| 3 | PD_DUP_chr3_4767 | 114133615 | 66 | N | <DUP> | 0.04818 | 0.0439 | 0.325659 | 1 | 1.1386 | 0.132059 | 0.12979944 |
| 3 | PD_DUP_chr3_4985 | 120222954 | 134 | N | <DUP> | 0.04487 | 0.02285 | 0.102959 | 1 | 1.28203 | 0.152359 | 0.24844476 |
| 3 | PD_DUP_chr3_5019 | 121204608 | 80 | <DUP> | N | 0.03971 | 0.04052 | 0.181118 | 1 | 0.837927 | 0.132223 | -0.1768243 |
| 3 | PD_DUP_chr3_5496 | 128661930 | 33919 | <DUP> | N | 0.03863 | 0.03512 | 0.804914 | 1 | 1.03552 | 0.141324 | 0.03490372 |
| 3 | PD_DUP_chr3_5508 | 128716258 | 537 | <DUP> | N | 0.01689 | 0.01658 | 0.531041 | 1 | 1.13208 | 0.198043 | 0.12405665 |
| 3 | PD_DUP_chr3_592 | 10745276 | 119 | <DUP> | N | 0.003329 | 0.02706 | 0.00437143 | 1 | 0.441704 | 0.286703 | -0.8171153 |
| 3 | PD_DUP_chr3_6132 | 141159466 | 58 | N | <DUP> | 0.1464 | 0.1546 | 0.976485 | 1 | 1.0021 | 0.071005 | 0.0020978 |
| 3 | PD_DUP_chr3_6289 | 144320529 | 150 | <DUP> | N | 0.02281 | 0.02495 | 0.325301 | 1 | 0.841429 | 0.175528 | -0.1726536 |
| 3 | PD_DUP_chr3_6364 | 146672617 | 4761 | N | <DUP> | 0.2816 | 0.2859 | 0.723004 | 1 | 1.02031 | 0.0567195 | 0.0201065 |
| 3 | PD_DUP_chr3_6449 | 149707861 | 83 | <DUP> | N | 0.01226 | 0.01537 | 0.341017 | 1 | 0.81236 | 0.218254 | -0.2078117 |
| 3 | PD_DUP_chr3_7025 | 167911293 | 269 | <DUP> | N | 0.01997 | 0.01891 | 0.320704 | 1 | 0.827408 | 0.19079 | -0.1894574 |
| 3 | PD_DUP_chr3_7054 | 168949600 | 62 | <DUP> | N | 0.01714 | 0.01773 | 0.99853 | 1 | 1.00037 | 0.199818 | 0.00036993 |
| 3 | PD_DUP_chr3_7210 | 173119774 | 63 | <DUP> | N | 0.1227 | 0.1361 | 0.0647597 | 1 | 0.864737 | 0.0786877 | -0.1453299 |
| 3 | PD_DUP_chr3_7224 | 173521481 | 51592 | <DUP> | N | 0.02264 | 0.02339 | 0.297722 | 1 | 0.833148 | 0.175298 | -0.182544 |
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| 3 | PD_DUP_chr3_7361 | 176518923 | 345 | <DUP> | N | 0.01414 | 0.01425 | 0.160127 | 1 | 1.35749 | 0.217589 | 0.30563741 |
| 3 | PD_DUP_chr3_7399 | 177258245 | 3963 | <DUP> | N | 0.01676 | 0.01608 | 0.872097 | 1 | 0.967245 | 0.20686 | -0.0333035 |
| 3 | PD_DUP_chr3_7555 | 181544727 | 69 | <DUP> | N | 0.1166 | 0.1072 | 0.19548 | 1 | 1.1105 | 0.0809606 | 0.10481036 |
| 3 | PD_DUP_chr3_7584 | 182153133 | 130 | N | <DUP> | 0.04799 | 0.02825 | 0.666024 | 1 | 1.06565 | 0.147328 | 0.06358494 |
| 3 | PD_DUP_chr3_8265 | 195059732 | 54 | <DUP> | N | 0.2402 | 0.2356 | 0.0391533 | 1 | 1.13801 | 0.0626795 | 0.12928112 |
| 3 | PD_DUP_chr3_8306 | 195337898 | 85 | <DUP> | N | 0.01639 | 0.01919 | 0.84317 | 1 | 0.960389 | 0.204291 | -0.0404169 |
| 3 | PD_DUP_chr3_8563 | 196002219 | 1041 | <DUP> | N | 0.01575 | 0.01213 | 0.492603 | 1 | 0.857181 | 0.224588 | -0.1541062 |
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| 3 | PD_DUP_chr3_8727 | 197387452 | 3562 | <DUP> | N | 0.01319 | 0.01715 | 0.014639 | 1 | 0.58034 | 0.2229 | -0.5441411 |
| 3 | PD_DUP_chr3_8839 | 198072022 | 135 | <DUP> | N | 0.09575 | 0.0961 | 0.116692 | 1 | 1.1472 | 0.0875365 | 0.13732419 |
| 4 | PD_DUP_chr4_1 | 10000 | 18500 | N | <DUP> | 0.0195 | 0.01644 | 0.230226 | 1 | 1.27743 | 0.204079 | 0.24485025 |
| 4 | PD_DUP_chr4_1114 | 12887563 | 437 | <DUP> | N | 0.02189 | 0.0233 | 0.914753 | 1 | 1.01945 | 0.179957 | 0.01926327 |
| 4 | PD_DUP_chr4_1143 | 13940762 | 72 | <DUP> | N | 0.02285 | 0.02714 | 0.824571 | 1 | 1.03883 | 0.171864 | 0.03809508 |
| 4 | PD_DUP_chr4_1434 | 23278696 | 52 | <DUP> | N | 0.02202 | 0.025 | 0.469482 | 1 | 0.883587 | 0.171108 | -0.1237655 |
| 4 | PD_DUP_chr4_1535 | 25554984 | 23859 | <DUP> | N | 0.01208 | 0.01225 | 0.208185 | 1 | 1.36838 | 0.249192 | 0.31362756 |
| 4 | PD_DUP_chr4_1611 | 27206381 | 184 | N | <DUP> | 0.2986 | 0.2757 | 0.449291 | 1 | 1.04627 | 0.0597881 | 0.04523146 |
| 4 | PD_DUP_chr4_1693 | 30739113 | 57 | <DUP> | N | 0.01378 | 0.01534 | 0.441474 | 1 | 1.18088 | 0.216 | 0.16625992 |
| 4 | PD_DUP_chr4_1921 | 36486702 | 56 | <DUP> | N | 0.02751 | 0.02506 | 0.00167088 | 1 | 1.67701 | 0.164484 | 0.51701245 |
| 4 | PD_DUP_chr4_2357 | 46762928 | 56 | <DUP> | N | 0.01424 | 0.01286 | 0.466648 | 1 | 1.1821 | 0.229817 | 0.16729252 |
| 4 | PD_DUP_chr4_2416 | 52081945 | 147 | N | <DUP> | 0.04603 | 0.02681 | 0.803571 | 1 | 1.03676 | 0.145124 | 0.03610047 |
| 4 | PD_DUP_chr4_2534 | 55501366 | 67 | <DUP> | N | 0.04311 | 0.04522 | 0.413384 | 1 | 1.11129 | 0.129004 | 0.1055215 |
| 4 | PD_DUP_chr4_2921 | 65764398 | 66 | <DUP> | N | 0.4983 | 0.4857 | 0.114266 | 1 | 1.08683 | 0.0527213 | 0.0832652 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | PD_DUP_chr4_3067 | 70336687 | 226 | <DUP> | N | 0.05372 | 0.05895 | 0.258862 | 1 | 0.879774 | 0.113446 | -0.1280902 |
| 4 | PD_DUP_chr4_3478 | 80902445 | 53 | <DUP> | N | 0.01719 | 0.01464 | 0.772602 | 1 | 0.942706 | 0.204173 | -0.0590008 |
| 4 | PD_DUP_chr4_3573 | 83128923 | 114 | <DUP> | N | 0.0123 | 0.01158 | 0.833175 | 1 | 0.948815 | 0.249446 | -0.0525414 |
| 4 | PD_DUP_chr4_3773 | 89180719 | 5524 | <DUP> | N | 0.109 | 0.09585 | 0.194375 | 1 | 1.11993 | 0.0872776 | 0.11326618 |
| 4 | PD_DUP_chr4_3805 | 90147142 | 74 | <DUP> | N | 0.03612 | 0.04801 | 0.00931884 | 1 | 0.703847 | 0.135068 | -0.3511943 |
| 4 | PD_DUP_chr4_382 | 2802610 | 60 | <DUP> | N | 0.02007 | 0.02494 | 0.435321 | 1 | 0.871293 | 0.176611 | -0.137777 |
| 4 | PD_DUP_chr4_3838 | 91202754 | 59 | N | <DUP> | 0.4183 | 0.4157 | 0.2494 | 1 | 1.06469 | 0.0544249 | 0.06268368 |
| 4 | PD_DUP_chr4_3993 | 95902202 | 54 | <DUP> | N | 0.009292 | 0.01153 | 0.572096 | 1 | 0.861567 | 0.263737 | -0.1490025 |
| 4 | PD_DUP_chr4_4263 | 103665240 | 64 | <DUP> | N | 0.0554 | 0.05803 | 0.692958 | 1 | 1.04516 | 0.111879 | 0.04416998 |
| 4 | PD_DUP_chr4_4533 | 112427370 | 63 | <DUP> | N | 0.02063 | 0.02299 | 0.982076 | 1 | 0.995995 | 0.178611 | -0.004013 |
| 4 | PD_DUP_chr4_4758 | 118694943 | 61 | <DUP> | N | 0.02297 | 0.02279 | 0.740607 | 1 | 0.942028 | 0.180396 | -0.0597203 |
| 4 | PD_DUP_chr4_4838 | 121855851 | 64 | <DUP> | N | 0.3038 | 0.3186 | 0.98806 | 1 | 0.999153 | 0.0566116 | -0.0008474 |
| 4 | PD_DUP_chr4_5979 | 154189481 | 59 | N | <DUP> | 0.08862 | 0.08942 | 0.690386 | 1 | 0.963117 | 0.0943455 | -0.0375804 |
| 4 | PD_DUP_chr4_6018 | 155198561 | 53 | <DUP> | N | 0.295 | 0.3032 | 0.616435 | 1 | 1.02985 | 0.0587155 | 0.02941316 |
| 4 | PD_DUP_chr4_603 | 5263225 | 64 | <DUP> | N | 0.03564 | 0.03822 | 0.875486 | 1 | 1.0228 | 0.143878 | 0.02254396 |
| 4 | PD_DUP_chr4_6174 | 160350250 | 84 | <DUP> | N | 0.007819 | 0.01496 | 0.20502 | 1 | 0.719393 | 0.259865 | -0.3293475 |
| 4 | PD_DUP_chr4_6427 | 166969486 | 68 | <DUP> | N | 0.07522 | 0.07485 | 0.836891 | 1 | 1.02053 | 0.0987146 | 0.0203221 |
| 4 | PD_DUP_chr4_6480 | 167924032 | 68 | <DUP> | N | 0.03183 | 0.03098 | 0.51547 | 1 | 0.90979 | 0.145372 | -0.0945415 |
| 4 | PD_DUP_chr4_6522 | 169349333 | 55 | <DUP> | N | 0.03147 | 0.02886 | 0.132939 | 1 | 1.26348 | 0.155642 | 0.23386982 |
| 4 | PD_DUP_chr4_6652 | 173399527 | 141 | <DUP> | N | 0.4893 | 0.5069 | 0.57552 | 1 | 0.970876 | 0.0527855 | -0.0295565 |
| 4 | PD_DUP_chr4_6813 | 177970725 | 81 | <DUP> | N | 0.4824 | 0.5067 | 0.555708 | 1 | 0.969587 | 0.0524168 | -0.0308851 |
| 4 | PD_DUP_chr4_6825 | 178229824 | 85 | N | <DUP> | 0.01547 | 0.006477 | 0.842059 | 1 | 0.945519 | 0.281143 | -0.0560213 |
| 4 | PD_DUP_chr4_6995 | 182937983 | 52 | <DUP> | N | 0.02086 | 0.01725 | 0.508143 | 1 | 0.8783 | 0.196104 | -0.1297671 |
| 4 | PD_DUP_chr4_7127 | 185063739 | 159 | <DUP> | N | 0.1033 | 0.1004 | 0.154296 | 1 | 1.13004 | 0.0858229 | 0.12225303 |
| 4 | PD_DUP_chr4_7191 | 186465481 | 64 | N | <DUP> | 0.04662 | 0.02591 | 0.541701 | 1 | 0.91062 | 0.15343 | -0.0936296 |
| 4 | PD_DUP_chr4_7261 | 187957764 | 62 | <DUP> | N | 0.03594 | 0.03122 | 0.838641 | 1 | 1.02952 | 0.14289 | 0.02909267 |
| 4 | PD_DUP_chr4_7358 | 188869461 | 96 | N | <DUP> | 0.3486 | 0.3298 | 0.143593 | 1 | 1.08551 | 0.0561032 | 0.08204992 |
| 4 | PD_DUP_chr4_7427 | 189508175 | 154 | N | <DUP> | 0.4023 | 0.3942 | 0.893054 | 1 | 0.992927 | 0.0527961 | -0.0070981 |
| 4 | PD_DUP_chr4_7490 | 190108939 | 321 | <DUP> | N | 0.0144 | 0.01687 | 0.339157 | 1 | 0.813601 | 0.215817 | -0.2062852 |
| 4 | PD_DUP_chr4_808 | 7625720 | 80 | <DUP> | N | 0.0267 | 0.03038 | 0.461841 | 1 | 0.893691 | 0.152749 | -0.1123952 |
| 4 | PD_DUP_chr4_923 | 8552375 | 121 | <DUP> | N | 0.3743 | 0.409 | 0.295045 | 1 | 0.944438 | 0.0545931 | -0.0571652 |
| 5 | PD_DUP_chr5_1193 | 14995225 | 5768 | <DUP> | N | 0.01122 | 0.01151 | 0.207873 | 1 | 1.33878 | 0.231661 | 0.29175875 |
| 5 | PD_DUP_chr5_1504 | 24001016 | 75 | <DUP> | N | 0.009339 | 0.01103 | 0.679365 | 1 | 1.11625 | 0.266063 | 0.10997485 |
| 5 | PD_DUP_chr5_1700 | 29456780 | 67 | <DUP> | N | 0.01934 | 0.02066 | 0.732255 | 1 | 1.06615 | 0.187212 | 0.06405403 |
| 5 | PD_DUP_chr5_1707 | 29843871 | 170 | <DUP> | N | 0.1107 | 0.1142 | 0.825621 | 1 | 1.01848 | 0.0831304 | 0.01831132 |
| 5 | PD_DUP_chr5_1790 | 32106096 | 61574 | <DUP> | N | 0.02263 | 0.01692 | 0.00336215 | 1 | 1.78871 | 0.198291 | 0.58149469 |
| 5 | PD_DUP_chr5_2206 | 43378023 | 79 | <DUP> | N | 0.01708 | 0.0164 | 0.682099 | 1 | 0.920623 | 0.201916 | -0.0827047 |
| 5 | PD_DUP_chr5_23 | 91218 | 75 | <DUP> | N | 0.03277 | 0.02662 | 0.58198 | 1 | 1.08685 | 0.151287 | 0.0832836 |
| 5 | PD_DUP_chr5_2407 | 53426438 | 102 | <DUP> | N | 0.02556 | 0.02047 | 0.645606 | 1 | 1.0804 | 0.168148 | 0.07733134 |
| 5 | PD_DUP_chr5_2594 | 58870045 | 62 | <DUP> | N | 0.4713 | 0.4683 | 0.988691 | 1 | 0.999265 | 0.0519224 | -0.0007353 |
| 5 | PD_DUP_chr5_3392 | 76023643 | 84 | <DUP> | N | 0.01267 | 0.01813 | 0.777587 | 1 | 0.940359 | 0.217703 | -0.0614936 |

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| 5 | PD_DUP_chr5_3545 | 79753746 | 2177 | <DUP> | N | 0.1251 | 0.1218 | 0.895952 | 1 | 0.989849 | 0.0780197 | -0.0102029 |
| 5 | PD_DUP_chr5_3674 | 83192164 | 51 | <DUP> | N | 0.03036 | 0.04147 | 0.117869 | 1 | 0.804517 | 0.139095 | -0.2175132 |
| 5 | PD_DUP_chr5_3822 | 87066584 | 287 | <DUP> | N | 0.02228 | 0.01676 | 0.0941215 | 1 | 1.37428 | 0.189915 | 0.31792996 |
| 5 | PD_DUP_chr5_4037 | 93362243 | 60 | <DUP> | N | 0.01319 | 0.01172 | 0.820039 | 1 | 1.05458 | 0.233616 | 0.05314258 |
| 5 | PD_DUP_chr5_5215 | 128319469 | 65 | <DUP> | N | 0.01085 | 0.01008 | 0.39215 | 1 | 1.24532 | 0.256381 | 0.21939253 |
| 5 | PD_DUP_chr5_6181 | 143433394 | 70 | <DUP> | N | 0.03231 | 0.03571 | 0.165421 | 1 | 1.22409 | 0.145771 | 0.20219771 |
| 5 | PD_DUP_chr5_6196 | 144108491 | 433 | <DUP> | N | 0.02186 | 0.02235 | 0.244681 | 1 | 0.819218 | 0.171404 | -0.1994051 |
| 5 | PD_DUP_chr5_6330 | 148268759 | 85 | <DUP> | N | 0.02566 | 0.02682 | 0.779097 | 1 | 0.955021 | 0.164075 | -0.0460219 |
| 5 | PD_DUP_chr5_6581 | 152131192 | 3998 | <DUP> | N | 0.1613 | 0.1634 | 0.332375 | 1 | 0.932169 | 0.0724625 | -0.0702412 |
| 5 | PD_DUP_chr5_7211 | 167690966 | 4646 | <DUP> | N | 0.02205 | 0.02123 | 0.50673 | 1 | 0.88844 | 0.178161 | -0.1182882 |
| 5 | PD_DUP_chr5_7412 | 170841729 | 61 | N | <DUP> | 0.4237 | 0.4266 | 0.910559 | 1 | 0.994016 | 0.0534303 | -0.006002 |
| 5 | PD_DUP_chr5_7605 | 173422753 | 67 | <DUP> | N | 0.01092 | 0.01139 | 0.514397 | 1 | 1.16918 | 0.23973 | 0.15630265 |
| 5 | PD_DUP_chr5_8056 | 178551134 | 56 | N | <DUP> | 0.3202 | 0.2926 | 0.639383 | 1 | 1.02712 | 0.0571218 | 0.02675877 |
| 5 | PD_DUP_chr5_8269 | 180748921 | 19645 | <DUP> | N | 0.02961 | 0.03497 | 0.0673782 | 1 | 0.761651 | 0.148849 | -0.2722668 |
| 6 | PD_DUP_chr6_115 | 1233848 | 59 | N | <DUP> | 0.3986 | 0.3998 | 0.669213 | 1 | 0.977441 | 0.0534079 | -0.0228173 |
| 6 | PD_DUP_chr6_1216 | 24497467 | 96 | <DUP> | N | 0.01979 | 0.01949 | 0.527452 | 1 | 0.888661 | 0.186802 | -0.1180394 |
| 6 | PD_DUP_chr6_1217 | 24513645 | 68 | <DUP> | N | 0.02749 | 0.02625 | 0.46759 | 1 | 0.89038 | 0.159838 | -0.1161069 |
| 6 | PD_DUP_chr6_1244 | 25091703 | 54 | N | <DUP> | 0.2268 | 0.2007 | 0.278644 | 1 | 1.07217 | 0.0643207 | 0.06968463 |
| 6 | PD_DUP_chr6_2908 | 44296944 | 51 | N | <DUP> | 0.04894 | 0.03796 | 0.5063 | 1 | 1.0927 | 0.133391 | 0.0886517 |
| 6 | PD_DUP_chr6_2967 | 45797451 | 123 | <DUP> | N | 0.0105 | 0.01031 | 0.354027 | 1 | 0.778616 | 0.27 | -0.2502373 |
| 6 | PD_DUP_chr6_3016 | 46951329 | 2325 | <DUP> | N | 0.008527 | 0.01314 | 0.125713 | 1 | 0.662698 | 0.268697 | -0.4114359 |
| 6 | PD_DUP_chr6_3158 | 51325985 | 59 | <DUP> | N | 0.111 | 0.1171 | 0.645408 | 1 | 0.963109 | 0.0816874 | -0.0375887 |
| 6 | PD_DUP_chr6_409 | 6984155 | 66 | <DUP> | N | 0.01321 | 0.01569 | 0.832789 | 1 | 0.955083 | 0.217674 | -0.045957 |
| 6 | PD_DUP_chr6_4109 | 82897764 | 288 | <DUP> | N | 0.01401 | 0.007762 | 0.197073 | 1 | 1.42572 | 0.27496 | 0.35467695 |
| 6 | PD_DUP_chr6_4247 | 87810654 | 88 | <DUP> | N | 0.01318 | 0.01261 | 0.870869 | 1 | 0.962038 | 0.238081 | -0.0387013 |
| 6 | PD_DUP_chr6_4250 | 87869372 | 56 | N | <DUP> | 0.1297 | 0.1196 | 0.941159 | 1 | 0.994047 | 0.0808939 | -0.0059708 |
| 6 | PD_DUP_chr6_4383 | 90774901 | 74 | <DUP> | N | 0.1183 | 0.1131 | 0.770549 | 1 | 1.02388 | 0.0809007 | 0.02359933 |
| 6 | PD_DUP_chr6_4601 | 96634375 | 57 | <DUP> | N | 0.01296 | 0.01514 | 0.792816 | 1 | 1.05776 | 0.213781 | 0.05615346 |
| 6 | PD_DUP_chr6_4828 | 103263024 | 62 | <DUP> | N | 0.03425 | 0.0314 | 0.644672 | 1 | 1.06971 | 0.146114 | 0.06738758 |
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| 6 | PD_DUP_chr6_496 | 8901934 | 58 | N | <DUP> | 0.1092 | 0.1076 | 0.317219 | 1 | 0.918382 | 0.0851254 | -0.0851419 |
| 6 | PD_DUP_chr6_5451 | 120443670 | 107 | N | <DUP> | 0.1446 | 0.1395 | 0.170175 | 1 | 1.10577 | 0.073314 | 0.10054192 |
| 6 | PD_DUP_chr6_5453 | 120504095 | 181 | N | <DUP> | 0.5029 | 0.4888 | 0.507535 | 1 | 0.964979 | 0.053795 | -0.0356489 |
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| 6 | PD_DUP_chr6_5680 | 128445206 | 68 | <DUP> | N | 0.05062 | 0.05726 | 0.730124 | 1 | 0.960629 | 0.11644 | -0.040167 |
| 6 | PD_DUP_chr6_570 | 10616177 | 112 | <DUP> | N | 0.01065 | 0.0137 | 0.118385 | 1 | 0.680362 | 0.246629 | -0.3851303 |
| 6 | PD_DUP_chr6_5759 | 131738509 | 86 | <DUP> | N | 0.01259 | 0.009935 | 0.12105 | 1 | 1.48766 | 0.256201 | 0.39720442 |
| 6 | PD_DUP_chr6_5929 | 136151712 | 70 | <DUP> | N | 0.4333 | 0.433 | 0.484876 | 1 | 0.964247 | 0.0521248 | -0.0364078 |
| 6 | PD_DUP_chr6_6381 | 148915834 | 134 | <DUP> | N | 0.06014 | 0.06096 | 0.290929 | 1 | 0.890634 | 0.109678 | -0.1158217 |
| 6 | PD_DUP_chr6_6816 | 158221347 | 80 | <DUP> | N | 0.01226 | 0.01209 | 0.792911 | 1 | 1.06219 | 0.229809 | 0.06033281 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | PD_DUP_chr6_6875 | 158998012 | 1201 | <DUP> | N | 0.02271 | 0.02345 | 0.175242 | 1 | 1.27051 | 0.176623 | 0.23941839 |
| 6 | PD_DUP_chr6_6978 | 160728280 | 109 | N | <DUP> | 0.14 | 0.1448 | 0.883972 | 1 | 0.989256 | 0.0740215 | -0.0108021 |
| 6 | PD_DUP_chr6_7437 | 167651305 | 655 | N | <DUP> | 0.04236 | 0.03149 | 0.0383064 | 1 | 1.35567 | 0.146893 | 0.3042958 |
| 6 | PD_DUP_chr6_7527 | 168276734 | 70 | <DUP> | N | 0.3943 | 0.3871 | 0.717927 | 1 | 1.02017 | 0.0552995 | 0.01996928 |
| 6 | PD_DUP_chr6_7664 | 169028975 | 53 | <DUP> | N | 0.03186 | 0.02902 | 0.915294 | 1 | 1.01633 | 0.15229 | 0.0161981 |
| 6 | PD_DUP_chr6_7700 | 169269309 | 74 | <DUP> | N | 0.01319 | 0.01244 | 0.73909 | 1 | 1.0799 | 0.230806 | 0.07686844 |
| 7 | PD_DUP_chr7_1310 | 19655479 | 65 | <DUP> | N | 0.01301 | 0.01404 | 0.0899189 | 1 | 0.682768 | 0.225023 | -0.3816002 |
| 7 | PD_DUP_chr7_1390 | 21900387 | 51 | <DUP> | N | 0.2302 | 0.2393 | 0.406064 | 1 | 0.948084 | 0.0641672 | -0.0533122 |
| 7 | PD_DUP_chr7_2239 | 40915751 | 243 | <DUP> | N | 0.1088 | 0.1148 | 0.0830261 | 1 | 0.864078 | 0.0842812 | -0.1460922 |
| 7 | PD_DUP_chr7_2415 | 44623496 | 117 | <DUP> | N | 0.4082 | 0.4101 | 0.181597 | 1 | 1.07238 | 0.0523084 | 0.06988048 |
| 7 | PD_DUP_chr7_2792 | 51957359 | 138 | <DUP> | N | 0.1095 | 0.1066 | 0.0812425 | 1 | 1.15657 | 0.0834268 | 0.14545873 |
| 7 | PD_DUP_chr7_2968 | 55854677 | 412 | <DUP> | N | 0.08652 | 0.09018 | 0.400595 | 1 | 1.08314 | 0.0950125 | 0.07986423 |
| 7 | PD_DUP_chr7_299 | 1489294 | 51 | N | <DUP> | 0.0412 | 0.02735 | 0.116768 | 1 | 0.787756 | 0.1521 | -0.2385669 |
| 7 | PD_DUP_chr7_3131 | 57388095 | 67 | <DUP> | N | 0.007758 | 0.01244 | 0.00714564 | 1 | 0.495912 | 0.26073 | -0.7013568 |
| 7 | PD_DUP_chr7_3231 | 57950035 | 589 | <DUP> | N | 0.02074 | 0.02581 | 0.140375 | 1 | 0.7713 | 0.176127 | -0.2596779 |
| 7 | PD_DUP_chr7_3377 | 62442448 | 3574 | <DUP> | N | 0.01872 | 0.01289 | 0.584313 | 1 | 0.886697 | 0.219801 | -0.120252 |
| 7 | PD_DUP_chr7_384 | 2003003 | 59 | N | <DUP> | 0.1019 | 0.09698 | 0.617926 | 1 | 0.956411 | 0.0893509 | -0.0445675 |
| 7 | PD_DUP_chr7_3864 | 67078245 | 2153 | <DUP> | N | 0.02228 | 0.01709 | 0.718739 | 1 | 1.06861 | 0.184262 | 0.06635874 |
| 7 | PD_DUP_chr7_4094 | 72367619 | 76 | <DUP> | N | 0.01456 | 0.01533 | 0.58514 | 1 | 0.892572 | 0.208189 | -0.1136481 |
| 7 | PD_DUP_chr7_4123 | 72868447 | 1548 | <DUP> | N | 0.05906 | 0.05618 | 0.233374 | 1 | 1.14519 | 0.113762 | 0.13557056 |
| 7 | PD_DUP_chr7_4615 | 78035304 | 53 | <DUP> | N | 0.05371 | 0.05445 | 0.264814 | 1 | 0.880129 | 0.114509 | -0.1276868 |
| 7 | PD_DUP_chr7_4937 | 87380245 | 150 | N | <DUP> | 0.2082 | 0.176 | 0.142983 | 1 | 1.10602 | 0.0687928 | 0.10076799 |
| 7 | PD_DUP_chr7_535 | 4031622 | 54 | <DUP> | N | 0.01261 | 0.01422 | 0.253985 | 1 | 1.28168 | 0.217555 | 0.24817172 |
| 7 | PD_DUP_chr7_5522 | 101033950 | 2157 | <DUP> | N | 0.04034 | 0.06067 | 0.676748 | 1 | 0.948753 | 0.126184 | -0.0526068 |
| 7 | PD_DUP_chr7_5523 | 101034004 | 2456 | <DUP> | N | 0.08262 | 0.09676 | 0.386843 | 1 | 1.08594 | 0.0952697 | 0.08244597 |
| 7 | PD_DUP_chr7_5699 | 104194929 | 51 | <DUP> | N | 0.0592 | 0.05674 | 0.57925 | 1 | 1.06363 | 0.111251 | 0.06168759 |
| 7 | PD_DUP_chr7_5881 | 108247550 | 75 | <DUP> | N | 0.01726 | 0.01677 | 0.441801 | 1 | 1.1583 | 0.191062 | 0.14695341 |
| 7 | PD_DUP_chr7_5887 | 108538510 | 61 | <DUP> | N | 0.1838 | 0.1921 | 0.104902 | 1 | 0.896833 | 0.0671492 | -0.1088856 |
| 7 | PD_DUP_chr7_5919 | 109447844 | 84 | <DUP> | N | 0.001357 | 0.0249 | 0.00120803 | 1 | 0.269435 | 0.40514 | -1.3114281 |
| 7 | PD_DUP_chr7_6383 | 126218975 | 269 | <DUP> | N | 0.03477 | 0.03222 | 0.379947 | 1 | 1.13566 | 0.14489 | 0.12721398 |
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| 7 | PD_DUP_chr7_6837 | 134190878 | 68 | N | <DUP> | 0.4282 | 0.4067 | 0.352041 | 1 | 1.05014 | 0.0525669 | 0.04892349 |
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| 7 | PD_DUP_chr7_8272 | 156264985 | 1218 | <DUP> | N | 0.01631 | 0.01787 | 0.274195 | 1 | 0.803054 | 0.200592 | -0.2193333 |
| 7 | PD_DUP_chr7_8705 | 158387515 | 60 | N | <DUP> | 0.03077 | 0.02195 | 0.353396 | 1 | 1.16885 | 0.168123 | 0.15602036 |
| 7 | PD_DUP_chr7_8745 | 158637510 | 62 | N | <DUP> | 0.1124 | 0.09517 | 0.809929 | 1 | 1.02137 | 0.0879247 | 0.02114486 |
| 7 | PD_DUP_chr7_8770 | 158795773 | 62 | <DUP> | N | 0.09674 | 0.1057 | 0.34117 | 1 | 0.920452 | 0.0870835 | -0.0828904 |
| 8 | PD_DUP_chr8_1148 | 14325582 | 63 | <DUP> | N | 0.01614 | 0.01531 | 0.564857 | 1 | 1.12819 | 0.209538 | 0.12061458 |
| 8 | PD_DUP_chr8_1290 | 18220701 | 79 | <DUP> | N | 0.02528 | 0.02792 | 0.618026 | 1 | 0.922226 | 0.162368 | -0.080965 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | PD_DUP_chr8_1413 | 21196660 | 66 | <DUP> | N | 0.2552 | 0.2706 | 0.110623 | 1 | 0.908705 | 0.0600066 | -0.0957348 |
| 8 | PD_DUP_chr8_145 | 961082 | 201 | <DUP> | N | 0.01162 | 0.01351 | 0.048504 | 1 | 0.636314 | 0.229134 | -0.4520631 |
| 8 | PD_DUP_chr8_1453 | 21452145 | 602 | <DUP> | N | 0.05399 | 0.05598 | 0.430719 | 1 | 1.09307 | 0.112935 | 0.08899025 |
| 8 | PD_DUP_chr8_1561 | 22645575 | 58 | <DUP> | N | 0.02515 | 0.02927 | 0.77359 | 1 | 1.04785 | 0.162468 | 0.04674045 |
| 8 | PD_DUP_chr8_232 | 1345207 | 55 | <DUP> | N | 0.4031 | 0.403 | 0.10059 | 1 | 1.09461 | 0.0550516 | 0.09039814 |
| 8 | PD_DUP_chr8_2614 | 50270590 | 11718 | <DUP> | N | 0.0209 | 0.02015 | 0.803175 | 1 | 1.04759 | 0.186526 | 0.04649229 |
| 8 | PD_DUP_chr8_2714 | 52581917 | 58 | <DUP> | N | 0.09184 | 0.09332 | 0.881934 | 1 | 0.986928 | 0.088595 | -0.0131582 |
| 8 | PD_DUP_chr8_2889 | 57259868 | 492 | <DUP> | N | 0.09828 | 0.09232 | 0.361889 | 1 | 1.0856 | 0.0900864 | 0.08213283 |
| 8 | PD_DUP_chr8_2967 | 59145799 | 53 | <DUP> | N | 0.01297 | 0.01459 | 0.662657 | 1 | 0.904133 | 0.231012 | -0.1007788 |
| 8 | PD_DUP_chr8_3069 | 61468104 | 7340 | <DUP> | N | 0.01277 | 0.01673 | 0.380712 | 1 | 0.831001 | 0.211188 | -0.1851243 |
| 8 | PD_DUP_chr8_3489 | 72851133 | 88 | N | <DUP> | 0.0617 | 0.06353 | 0.982783 | 1 | 0.997643 | 0.109326 | -0.0023598 |
| 8 | PD_DUP_chr8_3700 | 78989460 | 4507 | <DUP> | N | 0.01376 | 0.01476 | 0.916742 | 1 | 0.977872 | 0.214046 | -0.0223765 |
| 8 | PD_DUP_chr8_3978 | 88294378 | 59 | <DUP> | N | 0.0105 | 0.01318 | 0.945892 | 1 | 0.983554 | 0.244347 | -0.0165827 |
| 8 | PD_DUP_chr8_4458 | 100674447 | 2444 | <DUP> | N | 0.01741 | 0.01835 | 0.948867 | 1 | 0.98712 | 0.20214 | -0.0129637 |
| 8 | PD_DUP_chr8_4501 | 101317672 | 76 | <DUP> | N | 0.01568 | 0.01367 | 0.50945 | 1 | 1.14617 | 0.206806 | 0.13642595 |
| 8 | PD_DUP_chr8_4568 | 102943488 | 732 | <DUP> | N | 0.01568 | 0.01026 | 0.185511 | 1 | 1.3608 | 0.232686 | 0.30807276 |
| 8 | PD_DUP_chr8_4679 | 106125885 | 50 | <DUP> | N | 0.01455 | 0.0159 | 0.874098 | 1 | 0.967802 | 0.206545 | -0.0327278 |
| 8 | PD_DUP_chr8_4852 | 112525871 | 66 | <DUP> | N | 0.01268 | 0.01513 | 0.507211 | 1 | 0.863273 | 0.221694 | -0.1470243 |
| 8 | PD_DUP_chr8_5062 | 119497737 | 68 | <DUP> | N | 0.4063 | 0.424 | 0.963516 | 1 | 0.997533 | 0.0540036 | -0.00247 |
| 8 | PD_DUP_chr8_5095 | 120280928 | 196 | <DUP> | N | 0.02378 | 0.03312 | 0.261949 | 1 | 0.83788 | 0.157676 | -0.1768804 |
| 8 | PD_DUP_chr8_5128 | 121526619 | 69 | <DUP> | N | 0.0223 | 0.01873 | 0.770959 | 1 | 1.05451 | 0.182301 | 0.0530762 |
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| 7 | PD_INS_chr7_3048 | 95741492 | 345 | <INS> | N | 0.2369 | 0.2361 | 0.325456 | 1 | 1.06429 | 0.0633609 | 0.06230791 |
| 7 | PD_INS_chr7_3093 | 97217818 | 280 | <INS:ME:ALU> | N | 0.02236 | 0.02095 | 0.989761 | 1 | 1.00233 | 0.181168 | 0.00232729 |
| 7 | PD_INS_chr7_3114 | 97765960 | 607 | <INS:ME:LINE1> | N | 0.1545 | 0.1538 | 0.585822 | 1 | 1.04179 | 0.0751414 | 0.04094039 |
| 7 | PD_INS_chr7_3193 | 100958514 | 111 | N | <INS> | 0.02476 | 0.04174 | 0.17104 | 1 | 0.805044 | 0.158422 | -0.2168583 |
| 7 | PD_INS_chr7_3541 | 112310477 | 67 | <INS> | N | 0.01066 | 0.009899 | 0.0768979 | 1 | 0.637147 | 0.254813 | -0.4507549 |
| 7 | PD_INS_chr7_3832 | 120463404 | 280 | <INS:ME:ALU> | N | 0.01654 | 0.01629 | 0.279974 | 1 | 0.797743 | 0.20916 | -0.2259688 |
| 7 | PD_INS_chr7_3833 | 120463404 | 315 | <INS> | N | 0.01578 | 0.01541 | 0.197969 | 1 | 0.759735 | 0.213449 | -0.2747856 |
| 7 | PD_INS_chr7_4018 | 125734913 | 189 | <INS:ME:ALU> | N | 0.05177 | 0.05098 | 0.0605579 | 1 | 1.25332 | 0.12032 | 0.22579603 |
| 7 | PD_INS_chr7_4041 | 126510649 | 69 | N | <INS> | 0.2437 | 0.2512 | 0.99164 | 1 | 0.999335 | 0.0635046 | -0.0006652 |
| 7 | PD_INS_chr7_4157 | 130313590 | 325 | <INS> | N | 0.02236 | 0.0215 | 0.562759 | 1 | 1.1102 | 0.180636 | 0.10454018 |
| 7 | PD_INS_chr7_4158 | 130313590 | 281 | <INS:ME:ALU> | N | 0.02236 | 0.0215 | 0.562759 | 1 | 1.1102 | 0.180636 | 0.10454018 |
| 7 | PD_INS_chr7_4519 | 141614607 | 327 | <INS> | N | 0.01332 | 0.01539 | 0.2913 | 1 | 0.782161 | 0.232828 | -0.2456947 |
| 7 | PD_INS_chr7_4874 | 152523412 | 176 | N | <INS> | 0.4675 | 0.4482 | 0.0481102 | 1 | 1.11549 | 0.0552994 | 0.10929377 |
| 7 | PD_INS_chr7_4896 | 153278368 | 227 | N | <INS> | 0.02766 | 0.01457 | 0.220153 | 1 | 0.788984 | 0.1933 | -0.2370092 |
| 7 | PD_INS_chr7_625 | 16387572 | 280 | <INS:ME:ALU> | N | 0.01148 | 0.01175 | 0.318892 | 1 | 0.775322 | 0.255309 | -0.2544769 |
| 7 | PD_INS_chr7_626 | 16387572 | 327 | <INS> | N | 0.01148 | 0.01175 | 0.318892 | 1 | 0.775322 | 0.255309 | -0.2544769 |
| 7 | PD_INS_chr7_93 | 1887871 | 105 | N | <INS> | 0.3665 | 0.3406 | 0.790909 | 1 | 0.985732 | 0.0542024 | -0.0143708 |
| 7 | PD_INS_chr7_979 | 27064274 | 269 | <INS:ME:ALU> | N | 0.1474 | 0.1358 | 0.609691 | 1 | 1.04009 | 0.076997 | 0.03930725 |
| 8 | PD_INS_chr8_1330 | 41425359 | 50 | <INS> | N | 0.1358 | 0.1387 | 0.457822 | 1 | 0.942364 | 0.0799581 | -0.0593637 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | PD_INS_chr8_1386 | 48148272 | 78 | <INS> | N | 0.1126 | 0.1139 | 0.50489 | 1 | 0.944659 | 0.0853775 | -0.0569313 |
| 8 | PD_INS_chr8_2367 | 80340270 | 278 | <INS:ME:ALU> | N | 0.02367 | 0.02004 | 0.347368 | 1 | 1.18181 | 0.177763 | 0.16704716 |
| 8 | PD_INS_chr8_251 | 5971760 | 595 | N | <INS:ME:LINE1> | 0.3229 | 0.3125 | 0.26508 | 1 | 1.06394 | 0.0556158 | 0.061979 |
| 8 | PD_INS_chr8_2572 | 86302811 | 91 | N | <INS:ME:LINE1> | 0.2251 | 0.2159 | 0.259966 | 1 | 1.07571 | 0.0647907 | 0.07298091 |
| 8 | PD_INS_chr8_2824 | 94491116 | 167 | <INS> | N | 0.05901 | 0.05874 | 0.482413 | 1 | 1.08059 | 0.11035 | 0.07750719 |
| 8 | PD_INS_chr8_2868 | 95461700 | 280 | <INS:ME:ALU> | N | 0.02241 | 0.02588 | 0.268122 | 1 | 0.833485 | 0.164475 | -0.1821396 |
| 8 | PD_INS_chr8_2978 | 99145584 | 330 | <INS:ME> | N | 0.1723 | 0.1607 | 0.0478731 | 1 | 1.15007 | 0.0706724 | 0.13982281 |
| 8 | PD_INS_chr8_3162 | 105441455 | 52 | <INS> | N | 0.2104 | 0.213 | 0.213598 | 1 | 0.921696 | 0.0655609 | -0.0815398 |
| 8 | PD_INS_chr8_3482 | 114491300 | 280 | <INS:ME:ALU> | N | 0.009769 | 0.01034 | 0.892179 | 1 | 1.038 | 0.275147 | 0.03729578 |
| 8 | PD_INS_chr8_3861 | 126074685 | 113 | N | <INS> | 0.1147 | 0.1207 | 0.283255 | 1 | 0.913963 | 0.0838413 | -0.0899652 |
| 8 | PD_INS_chr8_4041 | 132713208 | 267 | <INS> | N | 0.01404 | 0.0176 | 0.307389 | 1 | 0.803263 | 0.214627 | -0.2190731 |
| 8 | PD_INS_chr8_4396 | 144356290 | 64 | <INS> | N | 0.3952 | 0.4 | 0.472543 | 1 | 1.04069 | 0.0555168 | 0.03988395 |
| 8 | PD_INS_chr8_762 | 22709292 | 158 | N | <INS> | 0.01857 | 0.006297 | 0.527308 | 1 | 1.1922 | 0.278119 | 0.17580034 |
| 9 | PD_INS_chr9_1114 | 31978483 | 273 | <INS> | N | 0.4424 | 0.457 | 0.0596148 | 1 | 0.901373 | 0.0551253 | -0.1038361 |
| 9 | PD_INS_chr9_1149 | 32818844 | 64 | N | <INS> | 0.02282 | 0.02825 | 0.329939 | 1 | 0.856127 | 0.159445 | -0.1553365 |
| 9 | PD_INS_chr9_1404 | 41047840 | 764 | N | <INS:ME:LINE1> | 0.04611 | 0.03744 | 0.00148532 | 1 | 0.643535 | 0.138717 | -0.4407789 |
| 9 | PD_INS_chr9_1741 | 75045331 | 280 | <INS:ME:ALU> | N | 0.01013 | 0.01175 | 0.0913186 | 1 | 0.638875 | 0.265355 | -0.4480465 |
| 9 | PD_INS_chr9_1816 | 77036879 | 267 | <INS:ME:ALU> | N | 0.009945 | 0.01302 | 0.404911 | 1 | 0.81927 | 0.23934 | -0.1993416 |
| 9 | PD_INS_chr9_1817 | 77036879 | 269 | <INS:ME:ALU> | N | 0.01033 | 0.01302 | 0.50065 | 1 | 0.852097 | 0.237659 | -0.1600549 |
| 9 | PD_INS_chr9_1818 | 77036879 | 277 | <INS:ME:ALU> | N | 0.01033 | 0.0132 | 0.399438 | 1 | 0.818254 | 0.238045 | -0.2005825 |
| 9 | PD_INS_chr9_2125 | 87845050 | 1587 | <INS:ME:SVA> | N | 0.0115 | 0.0114 | 0.390762 | 1 | 1.23433 | 0.245301 | 0.21052831 |
| 9 | PD_INS_chr9_2131 | 87894622 | 280 | <INS:ME:ALU> | N | 0.02052 | 0.02415 | 0.416966 | 1 | 0.865927 | 0.177351 | -0.1439547 |
| 9 | PD_INS_chr9_2568 | 102731897 | 279 | <INS:ME:ALU> | N | 0.0308 | 0.02696 | 0.0725215 | 1 | 1.31877 | 0.154078 | 0.27669948 |
| 9 | PD_INS_chr9_295 | 8219579 | 155 | <INS> | N | 0.3708 | 0.375 | 0.548858 | 1 | 0.967952 | 0.0543362 | -0.0325728 |
| 9 | PD_INS_chr9_3149 | 119968525 | 319 | <INS> | N | 0.02546 | 0.02078 | 0.411875 | 1 | 1.14932 | 0.169597 | 0.13917046 |
| 9 | PD_INS_chr9_3231 | 123347685 | 469 | N | <INS> | 0.05474 | 0.03239 | 0.787282 | 1 | 0.963321 | 0.138483 | -0.0373686 |
| 9 | PD_INS_chr9_427 | 11315236 | 280 | <INS:ME:ALU> | N | 0.00954 | 0.01319 | 0.582046 | 1 | 0.864316 | 0.264929 | -0.1458168 |
| 9 | PD_INS_chr9_483 | 12976511 | 280 | <INS:ME:ALU> | N | 0.01076 | 0.01178 | 0.699793 | 1 | 0.905697 | 0.256875 | -0.0990505 |
| 9 | PD_INS_chr9_53 | 1182474 | 53 | <INS> | N | 0.04054 | 0.03228 | 0.465509 | 1 | 1.10601 | 0.138068 | 0.10075894 |
| 9 | PD_INS_chr9_603 | 16896141 | 212 | N | <INS> | 0.0207 | 0.02195 | 0.388932 | 1 | 1.1644 | 0.176666 | 0.15220593 |
| 9 | PD_INS_chr9_97 | 2298288 | 192 | N | <INS> | 0.4584 | 0.4757 | 0.599669 | 1 | 0.972736 | 0.0526645 | -0.0276426 |
| 10 | PD_INV_chr10_12 | 73659955 | 197 | <INV> | N | 0.1569 | 0.1589 | 0.360024 | 1 | 1.0683 | 0.0721847 | 0.0660686 |
| 12 | PD_INV_chr12_8 | 39466254 | 276 | <INV> | N | 0.1847 | 0.1961 | 0.020489 | 1 | 0.857793 | 0.0661955 | -0.1533925 |
| 14 | PD_INV_chr14_7 | 65375819 | 829 | <INV> | N | 0.2714 | 0.2731 | 0.707879 | 1 | 1.02186 | 0.0576998 | 0.0216245 |
| 1 | PD_INV_chr1_2 | 21203905 | 852 | <INV> | N | 0.04313 | 0.043 | 0.0491951 | 1 | 1.28876 | 0.128973 | 0.25368052 |
| 21 | PD_INV_chr21_6 | 26648315 | 1091 | N | <INV> | 0.4985 | 0.4795 | 0.205151 | 1 | 1.06776 | 0.0517487 | 0.065563 |
| 4 | PD_INV_chr4_10 | 40233406 | 2033 | <INV> | N | 0.1366 | 0.136 | 0.603699 | 1 | 1.03983 | 0.075237 | 0.03905724 |
| 4 | PD_INV_chr4_4 | 16915408 | 445 | <INV> | N | 0.01973 | 0.02051 | 0.942575 | 1 | 1.01314 | 0.181231 | 0.01305442 |
| 6 | PD_INV_chr6_14 | 62781970 | 153 | <INV> | N | 0.02302 | 0.004678 | 0.0133776 | 1 | 1.97354 | 0.274838 | 0.67982888 |

**Supplementary Table 5: Rare variants only present in cases within reported PD causal or high risk genes (not validated)**

| Chr | Start | SV ID | Length | Type | PD gene | Allele count in cases (0 alleles in controls) | Validated? |
|---|---|---|---|---|---|---|---|
| chr6 | 162075963 | PD_INS_chr6_5262 | 5473 | INS | PRKN | 5 | no |
| chr6 | 162450242 | PD_DUP_chr6_7070 | 172 | DUP | PRKN | 4 | no |
| chr15 | 61862737 | PD_DEL_chr15_3519 | 5700 | DEL | VPS13C | 3 | no |
| chr6 | 161717179 | PD_DEL_chr6_13750 | 4315 | DEL | PRKN | 3 | no |
| chr6 | 161747555 | PD_DEL_chr6_13758 | 454797 | DEL | PRKN | 3 | no |
| chr6 | 162090733 | PD_DEL_chr6_13807 | 284912 | DEL | PRKN | 3 | no |
| chr6 | 162618986 | PD_DUP_chr6_7080 | 10344 | DUP | PRKN | 3 | no |
| chr6 | 162075963 | PD_INS_chr6_5261 | 5473 | INS | PRKN | 3 | no |
| chr6 | 162075334 | PD_DEL_chr6_13805 | 10586 | DEL | PRKN | 2 | no |
| chr6 | 162144897 | PD_DEL_chr6_13814 | 65 | DEL | PRKN | 2 | no |
| chr6 | 162219198 | PD_DEL_chr6_13833 | 120 | DEL | PRKN | 2 | no |
| chr6 | 162226958 | PD_DEL_chr6_13837 | 199743 | DEL | PRKN | 2 | no |
| chr6 | 162585812 | PD_DEL_chr6_13908 | 2850 | DEL | PRKN | 2 | no |
| chr1 | 65380647 | PD_INS_chr1_1860 | 280 | INS | DNAJC6 | 2 | no |
| chr15 | 62029798 | PD_INS_chr15_1297 | 280 | INS | VPS13C | 2 | no |
| chr6 | 161796397 | PD_INS_chr6_5245 | 280 | INS | PRKN | 2 | no |
| chr6 | 162382916 | PD_INS_chr6_5280 | 77 | INS | PRKN | 2 | no |
| chr1 | 153476402 | PD_CPX_chr1_207 | 2033212 | CPX | GBA | 1 | no |
| chr21 | 23636156 | PD_CPX_chr21_23 | 15777414 | CPX | SYNJ1 | 1 | no |
| chr1 | 65259807 | PD_DEL_chr1_6606 | 19201 | DEL | DNAJC6 | 1 | no |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| chr12 | 40280778 | PD_DEL_chr12_3482 | 246 | DEL | LRRK2 | 1 | no |
| chr12 | 40305278 | PD_DEL_chr12_3487 | 319 | DEL | LRRK2 | 1 | no |
| chr15 | 61962874 | PD_DEL_chr15_3526 | 6126 | DEL | VPS13C | 1 | no |
| chr2 | 232711618 | PD_DEL_chr2_20147 | 6000 | DEL | GIGYF2 | 1 | no |
| chr2 | 232724102 | PD_DEL_chr2_20149 | 481 | DEL | GIGYF2 | 1 | no |
| chr21 | 32698139 | PD_DEL_chr21_3222 | 1036 | DEL | SYNJ1 | 1 | no |
| chr21 | 32701662 | PD_DEL_chr21_3223 | 164 | DEL | SYNJ1 | 1 | no |
| chr22 | 38133155 | PD_DEL_chr22_2526 | 1801 | DEL | PLA2G6 | 1 | no |
| chr22 | 38150534 | PD_DEL_chr22_2528 | 284 | DEL | PLA2G6 | 1 | no |
| chr4 | 89734140 | PD_DEL_chr4_8207 | 87 | DEL | SNCA | 1 | no |
| chr6 | 161552826 | PD_DEL_chr6_13729 | 3032 | DEL | PRKN | 1 | no |
| chr6 | 161568790 | PD_DEL_chr6_13732 | 6000 | DEL | PRKN | 1 | no |
| chr6 | 161645168 | PD_DEL_chr6_13737 | 54 | DEL | PRKN | 1 | no |
| chr6 | 161748423 | PD_DEL_chr6_13759 | 335647 | DEL | PRKN | 1 | no |
| chr6 | 161796690 | PD_DEL_chr6_13760 | 587 | DEL | PRKN | 1 | no |
| chr6 | 161856485 | PD_DEL_chr6_13761 | 363 | DEL | PRKN | 1 | no |
| chr6 | 161949814 | PD_DEL_chr6_13777 | 14346 | DEL | PRKN | 1 | no |
| chr6 | 162002000 | PD_DEL_chr6_13785 | 64790 | DEL | PRKN | 1 | no |
| chr6 | 162033387 | PD_DEL_chr6_13798 | 5419 | DEL | PRKN | 1 | no |
| chr6 | 162034265 | PD_DEL_chr6_13799 | 201384 | DEL | PRKN | 1 | no |
| chr6 | 162039267 | PD_DEL_chr6_13800 | 1399 | DEL | PRKN | 1 | no |
| chr6 | 162052790 | PD_DEL_chr6_13801 | 174340 | DEL | PRKN | 1 | no |
| chr6 | 162070757 | PD_DEL_chr6_13804 | 1362 | DEL | PRKN | 1 | no |
| chr6 | 162109710 | PD_DEL_chr6_13808 | 141280 | DEL | PRKN | 1 | no |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| chr6 | 162111409 | PD_DEL_chr6_13809 | 242890 | DEL | PRKN | 1 | no |
| chr6 | 162113862 | PD_DEL_chr6_13810 | 1948 | DEL | PRKN | 1 | no |
| chr6 | 162121442 | PD_DEL_chr6_13811 | 259592 | DEL | PRKN | 1 | no |
| chr6 | 162149508 | PD_DEL_chr6_13815 | 15253 | DEL | PRKN | 1 | no |
| chr6 | 162167769 | PD_DEL_chr6_13821 | 290874 | DEL | PRKN | 1 | no |
| chr6 | 162171863 | PD_DEL_chr6_13823 | 143358 | DEL | PRKN | 1 | no |
| chr6 | 162174064 | PD_DEL_chr6_13824 | 32253 | DEL | PRKN | 1 | no |
| chr6 | 162199999 | PD_DEL_chr6_13830 | 78846 | DEL | PRKN | 1 | no |
| chr6 | 162215327 | PD_DEL_chr6_13832 | 190011 | DEL | PRKN | 1 | no |
| chr6 | 162220681 | PD_DEL_chr6_13835 | 159342 | DEL | PRKN | 1 | no |
| chr6 | 162227931 | PD_DEL_chr6_13838 | 238525 | DEL | PRKN | 1 | no |
| chr6 | 162229020 | PD_DEL_chr6_13839 | 78 | DEL | PRKN | 1 | no |
| chr6 | 162235983 | PD_DEL_chr6_13840 | 189935 | DEL | PRKN | 1 | no |
| chr6 | 162246220 | PD_DEL_chr6_13843 | 1644 | DEL | PRKN | 1 | no |
| chr6 | 162251287 | PD_DEL_chr6_13844 | 6376 | DEL | PRKN | 1 | no |
| chr6 | 162254355 | PD_DEL_chr6_13845 | 288585 | DEL | PRKN | 1 | no |
| chr6 | 162258574 | PD_DEL_chr6_13847 | 102807 | DEL | PRKN | 1 | no |
| chr6 | 162299108 | PD_DEL_chr6_13851 | 236473 | DEL | PRKN | 1 | no |
| chr6 | 162302274 | PD_DEL_chr6_13852 | 687 | DEL | PRKN | 1 | no |
| chr6 | 162313437 | PD_DEL_chr6_13857 | 61 | DEL | PRKN | 1 | no |
| chr6 | 162313496 | PD_DEL_chr6_13858 | 9706 | DEL | PRKN | 1 | no |
| chr6 | 162316450 | PD_DEL_chr6_13859 | 172265 | DEL | PRKN | 1 | no |
| chr6 | 162334685 | PD_DEL_chr6_13863 | 109718 | DEL | PRKN | 1 | no |
| chr6 | 162365311 | PD_DEL_chr6_13870 | 158269 | DEL | PRKN | 1 | no |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| chr6 | 162371541 | PD_DEL_chr6_13871 | 111 | DEL | PRKN | 1 | no |
| chr6 | 162382236 | PD_DEL_chr6_13875 | 2503 | DEL | PRKN | 1 | no |
| chr6 | 162440000 | PD_DEL_chr6_13883 | 14790 | DEL | PRKN | 1 | no |
| chr6 | 162442763 | PD_DEL_chr6_13884 | 166 | DEL | PRKN | 1 | no |
| chr6 | 162444717 | PD_DEL_chr6_13885 | 102550 | DEL | PRKN | 1 | no |
| chr6 | 162480193 | PD_DEL_chr6_13892 | 137587 | DEL | PRKN | 1 | no |
| chr6 | 162510025 | PD_DEL_chr6_13899 | 4287 | DEL | PRKN | 1 | no |
| chr6 | 162670965 | PD_DEL_chr6_13914 | 1767 | DEL | PRKN | 1 | no |
| chr1 | 16989078 | PD_DUP_chr1_1640 | 72169 | DUP | ATP13A2 | 1 | no |
| chr1 | 20639135 | PD_DUP_chr1_1915 | 44975 | DUP | PINK1 | 1 | no |
| chr15 | 61885826 | PD_DUP_chr15_2618 | 156 | DUP | VPS13C | 1 | no |
| chr15 | 62009699 | PD_DUP_chr15_2624 | 85 | DUP | VPS13C | 1 | no |
| chr6 | 161364041 | PD_DUP_chr6_7023 | 290 | DUP | PRKN | 1 | no |
| chr6 | 161480293 | PD_DUP_chr6_7030 | 59 | DUP | PRKN | 1 | no |
| chr6 | 161567720 | PD_DUP_chr6_7032 | 517940 | DUP | PRKN | 1 | no |
| chr6 | 161756556 | PD_DUP_chr6_7038 | 63 | DUP | PRKN | 1 | no |
| chr6 | 162070917 | PD_DUP_chr6_7046 | 53 | DUP | PRKN | 1 | no |
| chr6 | 162117364 | PD_DUP_chr6_7050 | 129117 | DUP | PRKN | 1 | no |
| chr6 | 162145143 | PD_DUP_chr6_7051 | 2537 | DUP | PRKN | 1 | no |
| chr6 | 162461124 | PD_DUP_chr6_7073 | 252647 | DUP | PRKN | 1 | no |
| chr6 | 162472576 | PD_DUP_chr6_7074 | 30675 | DUP | PRKN | 1 | no |
| chr6 | 162634964 | PD_DUP_chr6_7081 | 44885 | DUP | PRKN | 1 | no |
| chr15 | 89325139 | PD_INS_chr15_2041 | 54 | INS | POLG | 1 | no |
| chr15 | 89325150 | PD_INS_chr15_2042 | 50 | INS | POLG | 1 | no |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| chr21 | 32695626 | PD_INS_chr21_886 | 1240 | INS | SYNJ1 | 1 | no |
| chr22 | 38197259 | PD_INS_chr22_656 | 55 | INS | PLA2G6 | 1 | no |
| chr3 | 132504888 | PD_INS_chr3_3782 | 73 | INS | DNAJC13 | 1 | no |
| chr6 | 161633443 | PD_INS_chr6_5237 | 281 | INS | PRKN | 1 | no |
| chr6 | 161760074 | PD_INS_chr6_5240 | 279 | INS | PRKN | 1 | no |
| chr6 | 161915409 | PD_INS_chr6_5256 | 280 | INS | PRKN | 1 | no |
| chr6 | 162008375 | PD_INS_chr6_5259 | 5219 | INS | PRKN | 1 | no |
| chr6 | 162195488 | PD_INS_chr6_5267 | 279 | INS | PRKN | 1 | no |
| chr6 | 162361022 | PD_INS_chr6_5279 | 280 | INS | PRKN | 1 | no |
| chr6 | 162468687 | PD_INS_chr6_5287 | 393 | INS | PRKN | 1 | no |
| chr6 | 162662596 | PD_INS_chr6_5295 | 85 | INS | PRKN | 1 | no |
| chr6 | 162725077 | PD_INS_chr6_5298 | 192 | INS | PRKN | 1 | no |
| chr2 | 63332247 | PD_INV_chr2_13 | 39548208 | INV | HTRA2 | 1 | no |
| chr4 | 39626057 | PD_INV_chr4_9 | 17637755 | INV | UCHL1 | 1 | no |

## Supplementary material:


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