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| **Supplemental Table 1.** Copy number variation of genomic DNA from paired samples of FVM and blood. |
| **Sample ID** | **Chr** | **Start** | **End** | **Cytoband** | **Copy #** | **Length (bps)** | **# Markers** | **Nearest Feature** |
| Case 7 | chr15 | 25432907 | 25497964 | 15q11.2 | Del | 65057 | 22 | SNORD115-44 (+) |
| Case 7 | chr19 | 9055546 | 9094436 | 19p13.2 | Del | 38890 | 22 | MUC16 (-) |
| Case 7 | chr19 | 21036850 | 21097074 | 19p12 | Del | 60224 | 15 | ZNF85 (+) |
| Case 8 | chr1 | 19454079 | 19495129 | 1p36.13 | Del | 41050 | 20 | UBR4 (-) |
| Case 8 | chr2 | 100049456 | 100082832 | 2q11.2 | Del | 33376 | 19 | REV1 (-) |
| Case 8 | chr4 | 103940346 | 103970676 | 4q24 | Amp | 30330 | 16 | SLC9B2 (-) |
| Case 8 | chr15 | 25310018 | 25335615 | 15q11.2 | Del | 25597 | 16 | SNORD116-22 (+) |
| Case 8 | chr15 | 25424450 | 25497964 | 15q11.2 | Del | 73514 | 25 | SNORD115-44 (+) |
| Case 8 | chr3 | 11049818 | 11084591 | 3p25.3 | Amp | 34773 | 17 | SLC6A1-AS1 (-) |
| Case 8 | chr3 | 126221251 | 126257201 | 3q21.3 | Amp | 35950 | 17 | CHST13 (+) |
| Case 8 | chr19 | 8992413 | 9019273 | 19p13.2 | Amp | 26860 | 15 | MUC16 (-) |
| Case 8 | chr19 | 9055546 | 9092403 | 19p13.2 | Del | 36857 | 21 | MUC16 (-) |
| Case 8 | chr19 | 21052729 | 21106807 | 19p12 | Del | 54078 | 15 | ZNF85 (+) |
| Case 8 | chr19 | 38054564 | 38076353 | 19q13.12 | Del | 21789 | 15 | ZNF571 (-) |
| Case 8 | chr18 | 23009833 | 23144132 | 18q11.2 | Amp | 134299 | 15 | ZNF521 (-) |
| Case 8 | chr5 | 65441054 | 65472864 | 5q12.3 | Del | 31810 | 15 | SREK1 (+) |
| Case 8 | chr21 | 26975452 | 27007448 | 21q21.3 | Amp | 31996 | 17 | MRPL39 (-) |
| Case 8 | chr21 | 37407767 | 37439882 | 21q22.12 | Del | 32115 | 17 | SETD4 (-) |
| Case 8 | chr22 | 31321922 | 31347718 | 22q12.2 | Del | 25796 | 16 | MORC2 (-) |
| Case 9 | chr1 | 34208055 | 34248529 | 1p35.1 | Amp | 40474 | 21 | CSMD2 (-) |
| Case 9 | chr1 | 52284874 | 52342667 | 1p32.3 | Del | 57793 | 25 | MIR761 (-) |
| Case 9 | chr1 | 70289865 | 70338560 | 1p31.1 | Del | 48695 | 25 | LRRC7 (+) |
| Case 9 | chr1 | 78144949 | 78182529 | 1p31.1 | Del | 37580 | 17 | USP33 (-) |
| Case 9 | chr1 | 93218982 | 93249321 | 1p22.1 | Del | 30339 | 16 | EVI5 (-) |
| Case 9 | chr2 | 69561802 | 69597034 | 2p13.3 | Del | 35232 | 20 | GFPT1 (-) |
| Case 9 | chr2 | 78807130 | 78927137 | 2p12 | Del | 120007 | 15 | REG3G (+) |
| Case 9 | chr4 | 26662473 | 26702839 | 4p15.2 | Del | 40366 | 15 | TBC1D19 (+) |
| Case 9 | chr4 | 33759681 | 33837602 | 4p15.1 | Del | 77921 | 15 | ARAP2 (-) |
| Case 9 | chr7 | 38316425 | 38357851 | 7p14.1 | Amp | 41426 | 22 | TARP (-) |
| Case 9 | chr7 | 63931317 | 64005603 | 7q11.21 | Del | 74286 | 15 | ZNF680 (-) |
| Case 9 | chr9 | 129881122 | 129910924 | 9q33.3 | Amp | 29802 | 16 | ANGPTL2 (-) |
| Case 9 | chr12 | 32848949 | 32888679 | 12p11.21 | Del | 39730 | 17 | DNM1L (+) |
| Case 9 | chr12 | 112697703 | 112746119 | 12q24.13 | Del | 48416 | 22 | HECTD4 (-) |
| Case 9 | chr14 | 22385257 | 23021844 | 14q11.2 | Amp | 636587 | 316 | DAD1 (-) |
| Case 9 | chr3 | 3960234 | 4024004 | 3p26.2 - 3p26.1 | Del | 63770 | 16 | LRRN1 (+) |
| Case 9 | chr19 | 7269808 | 7400578 | 19p13.2 | Del | 130770 | 16 | INSR (-) |
| Case 9 | chr19 | 9060625 | 9098053 | 19p13.2 | Del | 37428 | 21 | MUC16 (-) |
| Case 9 | chr19 | 10968042 | 11006053 | 19p13.2 | Del | 38011 | 17 | CARM1 (+) |
| Case 9 | chr21 | 40640470 | 40679080 | 21q22.2 | Del | 38610 | 21 | BRWD1 (-) |
| Case 9 | chr22 | 36980457 | 37017881 | 22q12.3 | Amp | 37424 | 18 | CACNG2 (-) |
| Case 10 | chr2 | 16036054 | 16086979 | 2p24.3 | Amp | 50925 | 19 | MYCN (+) |
| Case 10 | chr8 | 39306522 | 39380857 | 8p11.22 | Amp | 74335 | 30 | ADAM3A (-) |
| Case 10 | chr15 | 55663780 | 55677503 | 15q21.3 | Del | 13723 | 17 | MIR628 (-) |
| Case 10 | chr17 | 57526074 | 57597089 | 17q22 | Del | 71015 | 16 | DHX40 (+) |
| Case 11 | chr1 | 21204587 | 21486725 | 1p36.12 | Del | 282138 | 157 | EIF4G3 (-) |
| Case 11 | chr1 | 31879618 | 31963525 | 1p35.2 | Amp | 83907 | 29 | SERINC2 (+) |
| Case 11 | chr1 | 175148223 | 175228104 | 1q25.1 | Amp | 79881 | 23 | KIAA0040 (-) |
| Case 11 | chr2 | 24084228 | 24142993 | 2p23.3 | Del | 58765 | 27 | ATAD2B (-) |
| Case 11 | chr2 | 71909364 | 71974549 | 2p13.2 | Amp | 65185 | 20 | DYSF (+) |
| Case 11 | chr2 | 165618112 | 165646538 | 2q24.3 | Del | 28426 | 17 | COBLL1 (-) |
| Case 11 | chr2 | 190557143 | 190597078 | 2q32.2 | Del | 39935 | 17 | ANKAR (+) |
| Case 11 | chr2 | 194518479 | 194708688 | 2q32.3 | Del | 190209 | 21 | PCGEM1 (+) |
| Case 11 | chr4 | 65328558 | 65449939 | 4q13.1 | Del | 121381 | 16 | TECRL (-) |
| Case 11 | chr4 | 131223444 | 131335004 | 4q28.3 | Del | 111560 | 16 | C4orf33 (+) |
| Case 11 | chr7 | 36679872 | 36712714 | 7p14.2 | Amp | 32842 | 16 | AOAH (-) |
| Case 11 | chr8 | 142599789 | 146294071 | 8q24.3 | Amp | 3694282 | 1258 | C8orf33 (+) |
| Case 11 | chr9 | 137234357 | 138087526 | 9q34.2 - 9q34.3 | Amp | 853169 | 342 | LOC401557 (+) |
| Case 11 | chr9 | 138132090 | 141025892 | 9q34.3 | Amp | 2893802 | 1130 | CACNA1B (+) |
| Case 11 | chr10 | 32303389 | 32342462 | 10p11.22 | Del | 39073 | 18 | KIF5B (-) |
| Case 11 | chr10 | 120553015 | 120648179 | 10q26.11 | Amp | 95164 | 23 | CACUL1 (-) |
| Case 11 | chr11 | 931498 | 2966702 | 11p15.5 - 11p15.4 | Amp | 2035204 | 816 | NAP1L4 (-) |
| Case 11 | chr11gl000202random | 17055 | 25629 |  | Amp | 8574 | 6 | None |
| Case 11 | chr12 | 87027143 | 87053440 | 12q21.32 | Del | 26297 | 15 | MGAT4C (-) |
| Case 11 | chr12 | 104483849 | 104514268 | 12q23.3 | Del | 30419 | 15 | NFYB (-) |
| Case 11 | chr12 | 112697703 | 112747563 | 12q24.13 | Del | 49860 | 23 | HECTD4 (-) |
| Case 11 | chr12 | 116408562 | 116724289 | 12q24.21 | Del | 315727 | 190 | MIR620 (-) |
| Case 11 | chr13 | 38824979 | 38938797 | 13q13.3 | Del | 113818 | 29 | UFM1 (+) |
| Case 11 | chr13 | 109095760 | 109135517 | 13q33.3 | Del | 39757 | 15 | MYO16 (+) |
| Case 11 | chr14 | 85301234 | 85421883 | 14q31.3 | Del | 120649 | 15 | FLRT2 (+) |
| Case 11 | chr15 | 25568122 | 25625451 | 15q11.2 | Del | 57329 | 28 | UBE3A (-) |
| Case 11 | chr16 | 71789409 | 71858547 | 16q22.2 | Del | 69138 | 32 | SNORD71 (-) |
| Case 11 | chr17gl000204random | 32892 | 42846 |  | Amp | 9954 | 17 | None |
| Case 11 | chr3 | 178010704 | 178070794 | 3q26.32 | Del | 60090 | 15 | KCNMB2-IT1 (+) |
| Case 11 | chr19 | 8994001 | 9022498 | 19p13.2 | Amp | 28497 | 16 | MUC16 (-) |
| Case 11 | chr19 | 9022498 | 9092403 | 19p13.2 | Del | 69905 | 39 | MUC16 (-) |
| Case 11 | chr18 | 34871682 | 35002559 | 18q12.2 | Amp | 130877 | 65 | CELF4 (-) |
| Case 11 | chr5 | 13879824 | 13913690 | 5p15.2 | Del | 33866 | 16 | DNAH5 (-) |
| Case 11 | chr5 | 19654660 | 19717051 | 5p14.3 | Del | 62391 | 23 | CDH18 (-) |
| Case 11 | chr5 | 36989372 | 37028790 | 5p13.2 | Del | 39418 | 21 | NIPBL (+) |
| Case 11 | chr5 | 38938338 | 38967385 | 5p13.1 | Del | 29047 | 15 | RICTOR (-) |
| Case 11 | chr5 | 139024757 | 139307800 | 5q31.2 | Amp | 283043 | 121 | NRG2 (-) |
| Amp = amplification; bps = base pairs; Chr = chromosome; Del = deletion |