dup(2)(p11.2)

- tandem duplication on Chr2: 87119256(p11.2) - 87792303(p11.2)

- all genes near breakpoints: ['PLGLB2', 'ANAPC1P2', 'SH3YL1', 'MIR4435-1', 'RGPD1', 'ANAPC1P4', 'RGPD2', 'PLGLB1', 'MIR4771-1', 'MIR4771-2', 'MIR4435-2', 'FAM110C']

- genes near breakpoints documented in DDG2P: None

- all genes with +1 CN: ['MIR4771-1', 'MIR4771-2', 'CYTOR', 'MIR4435-1', 'MIR4435-2', 'ANAPC1P4', 'PLGLB2', 'PLGLB1', 'RGPD1', 'RGPD2']

- genes with +1 CN documented in DDG2P: None

dup(15)(q11.2)

- tandem duplication on Chr15: 24287734(q11.2) - 24561669(q11.2)

- all genes near breakpoints: ['REREP3', 'OR4N3P', 'HERC2P2', 'IGHV1OR15-3', 'MIR1268A', 'PWRN2', 'HERC2P7', 'LOC642131', 'HERC2', 'IGHV1OR15-1', 'GOLGA8EP', 'LOC102724760', 'PWRN4', 'NPAP1', 'PWRN3', 'PWRN1']

- genes near breakpoints documented in DDG2P:

HERC2(605837): HERC2-related neurodevelopmental disorder(615516)

- all genes with +1 CN: ['PWRN3', 'PWRN1']

- genes with +1 CN documented in DDG2P: None

dup(17)(p11.2)

- tandem duplication on Chr17: 21404893(p11.2) - 21692279(p11.2)

- all genes near breakpoints: ['SCGB1C2', 'NATD1', 'LINC02091', 'TMEM11', 'RPH3AL', 'KCNJ18', 'MAP2K3', 'KCNJ12', 'DOC2B', 'LINC02693']

- genes near breakpoints documented in DDG2P: None

- all genes with +1 CN: ['KCNJ12', 'LINC02693']

- genes with +1 CN documented in DDG2P: None