

**inv(16)(p12.2)**

- inversion on Chr16: 21502978(p12.2) - 22436123(p12.2)
- all genes near breakpoints: ['HBZ', 'LOC101927814', 'LUC7L', 'WASIR2', 'CRYM', 'IGSF6', 'EEF2K', 'MPG', 'RRN3P3', 'HBA2', 'OTOAP1', 'HBA1', 'SMG1P3', 'DDX11L10', 'METTL9', 'MIR3680-1', 'NPRL3', 'NPIPB3', 'SLC7A5P2', 'OTOA', 'SNRNP25', 'SNX29P1', 'MIR3680-2', 'MIR6859-2', 'LOC100190986', 'MFSD13B', 'CRYM-AS1', 'POLR3K', 'POLR3E', 'CDR2', 'RHBDF1', 'NPIPB5', 'MIR6859-4', 'SMG1P1', 'MIR6859-3', 'MIR6859-1', 'HBQ1', 'LOC440346', 'HBM']
- genes near breakpoints documented in DDG2P: None

**left-dup-inv(16)(p11.2p11.1)**

- left duplication inversion on Chr16: 35212605(p11.2) - 35472809(p11.1)
- all genes near breakpoints: ['FRG2DP', 'OTOAP1', 'NPIPB5', 'TP53TG3HP', 'LINC01566', 'LOC112268173', 'UBE2MP1', 'HS3ST2', 'CCNYL3']
- genes near breakpoints documented in DDG2P: None
- all genes with +1 CN: ['LINC01566']
- genes with +1 CN documented in DDG2P: None