

**inv(1)(q21.1q21.2)**

- inversion on Chr1: 146327105(q21.1) - 149352353(q21.2)
- all genes near breakpoints: ['NOTCH2NLC', 'NBPF19', 'RNU1-3', 'HYDIN2', 'OR4F5', 'NBPF10', 'MIR1302-10', 'MIR6859-3', 'RNU1-4', 'FAM138A', 'NOTCH2NLA', 'MIR1302-9', 'DDX11L17', 'MIR6859-1', 'WASH7P', 'SEC22B2P', 'RNU1-1', 'NUDT4P2', 'RNU1-2', 'NUDT4B', 'LOC729737', 'RNVU1-18', 'PPIAL4H', 'FAM138F', 'LOC653513', 'DDX11L1', 'MIR1302-11', 'MIR6859-2', 'MIR1302-2', 'MIR6859-4', 'SEC22B3P', 'FAM138C']
- genes near breakpoints documented in DDG2P: None

**inv(1)(q21.1q21.2)**

- inversion on Chr1: 146327105(q21.1) - 149352353(q21.2)
- all genes near breakpoints: ['NOTCH2NLC', 'NBPF19', 'RNU1-3', 'HYDIN2', 'OR4F5', 'NBPF10', 'MIR1302-10', 'MIR6859-3', 'RNU1-4', 'FAM138A', 'NOTCH2NLA', 'MIR1302-9', 'DDX11L17', 'MIR6859-1', 'WASH7P', 'SEC22B2P', 'RNU1-1', 'NUDT4P2', 'RNU1-2', 'NUDT4B', 'LOC729737', 'RNVU1-18', 'PPIAL4H', 'FAM138F', 'LOC653513', 'DDX11L1', 'MIR1302-11', 'MIR6859-2', 'MIR1302-2', 'MIR6859-4', 'SEC22B3P', 'FAM138C']
- genes near breakpoints documented in DDG2P: None