



**Supplementary Figure S2:** Fluorescence *in situ* hybridization on metaphase chromosome showing unexpected insertion not visible on karyotype. a) Patient CS/1002: insertion of 15q14 region in the long arm of chromosome 12. RP11-83J16 (14q14) (DEAC), 15qter (FITC) (Cytocell), 12qter (Texas Red) (Cytocell). b) Patient NM/0102: insertion of 2q24.1 region in the short arm of chromosome 3. RP11-103B10 (3p21.31) (Aqua) and RP11-943H24 (2q24.1) (rhodamine) (RainbowFish). c) and d) Patient JB/0102 : insertion of 6q27 region and 13q13.1 region in the long arm of chromosome 11 (11q22.3) confirmed on metaphase spread (c) and interphase nucleus (d). RP11-757H20 probe (6q27) in blue, RP11-484L12 (13q31.3) in green and RP11-695N3 (11q22.3) in red. The black arrows show the insertion of chr6q27 and chr13q31.3 sequences in chromosome 11.