

|                  | Microhomology       |    |    |    |    |   |    |    |    |    |    |    |    |     |    |    |    |  |
|------------------|---------------------|----|----|----|----|---|----|----|----|----|----|----|----|-----|----|----|----|--|
| Class of BFJ     | 0                   | 1  | 2  | 3  | 4  | 5 | 6  | 7  | 9  | 10 | 14 | 15 | 32 | T   |    |    |    |  |
| Interchromosomal | 9                   | 6  | 5  | 4  | 2  |   |    |    |    | 1  |    | 1  |    | 28  |    |    |    |  |
| Non-inverted     | 11                  | 4  | 9  | 4  | 5  | 1 | 1  |    |    |    |    |    |    | 35  |    |    |    |  |
| Inverted         | 5                   | 4  | 19 | 4  | 6  | 2 |    | 1  | 1  |    | 1  |    | 1  | 44  |    |    |    |  |
| Total            | 25                  | 14 | 33 | 12 | 13 | 3 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 107 |    |    |    |  |
|                  |                     |    |    |    |    |   |    |    |    |    |    |    |    |     |    |    |    |  |
|                  | Sequence insertions |    |    |    |    |   |    |    |    |    |    |    |    |     |    |    |    |  |
| Class of BFJ     | 1                   | 2  | 3  | 5  | 6  | 9 | 10 | 11 | 12 | 15 | 18 | 19 | 24 | 25  | 37 | 44 | T  |  |
| Interchromosomal | 1                   | 2  | 2  | 1  |    |   | 1  | 1  |    |    |    |    |    | 1   |    |    | 9  |  |
| Non-inverted     | 1                   |    |    |    | 1  | 1 | 1  | 1  |    | 1  | 1  | 1  | 1  |     | 1  | 1  | 11 |  |
| Inverted         | 3                   |    | 1  |    |    |   |    |    | 1  |    |    |    |    |     | 1  |    | 6  |  |
| Total            | 5                   | 2  | 3  | 1  | 1  | 1 | 2  | 2  | 1  | 1  | 1  | 1  | 1  | 1   | 2  | 1  | 26 |  |

Supplementary Table 3.

Patterns of sequence microhomology and putative non-templated DNA synthesis (sequence insertions) at BFJs for each class genomic rearrangement, interchromosomal or intrachromosomal (subdivided into non-inverted, inverted and inverted duplications). BFJs resulting from non-allelic homologous recombination are highlighted (\*).