

**Title:** Supplementary Data 1:

**Description:** Probe details used in this study.

**Title:** Supplementary Data 2:

**Description:** Overview of rearrangements identified by PLIER. Rearrangements that are additionally confirmed by identification of fusion-reads are bold faced and also marked by a star “\*”. Cells with “red” background indicate disagreement with FISH results. Cells with pink background indicate the calls that were denoted as “irrelevant” using butterfly plots. Cells with a yellow background refer to calls for which no FISH result was available. Calls with a blue font indicate calls for which no FISH experiment is done.

**Title:** Supplementary Data 3.

**Description:** Fusion-reads detected in this study.

**Title:** Supplementary Data 4:

**Description:** Capture-NGS translocation calls.