**Supplemental Figures**

Supplemental Figure 1 – Types of Copy Number Changes Scored

A) Examples of copy number abnormality (CNA) scoring are shown. A) Three different temporal CNA phenotypes are shown. In the first panel a chromosome with an identical deletion at diagnosis and relapse is shown. In the second panel an example of acquired abnormalities is shown where two different CNA are present only at relapse. In the third panel an example of a CNA loss is shown where a large deletion present at diagnosis is not detectable at relapse.

B) Because we scored structural changes we did not score enrichment events of abnormalities present at diagnosis. In panel one an example of two co-incident enrichment events is shown and the relative log2 ratios are indicated. In panel two a more complicated scenario is shown where three regions show a similar level of enrichment while a CNA indicated by a red arrow is acquired at relapse.
Supplemental Figure 2 – Chromosome 8 Assay Differentiating Progenitor 1 and 2

A) The relative position of each FISH probe used to determine the presence or absence of specific chromosomal regions is shown beside the aCGH results.

B) The number of cells counted and the percentage of each phenotype detected by FISH is indicated. The letters indicated under Phenotype correlate with the colors seen in A): red (R), aqua (A) and green (G).
A) The relative position of each FISH probe is shown beside the aCGH results. See Suppl Figure 2A.

B) The number of cells counted and the percentage of each phenotype shown by FISH. See Suppl Figure 2B.
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B) The number of cells counted and the percentage of each phenotype shown by FISH. See Suppl Figure 2B.
Supplemental Figure 5 – Chromosome 14 (Progenitor 1 vs 2.1 vs 2.2)

A) The relative position of each FISH probe is shown beside the aCGH results. See Suppl Figure 2A.

B) The number of cells counted and the percentage of each phenotype shown by FISH. See Suppl Figure 2B.
Supplemental Figure 6 – Chromosome 11/BIRC (Progenitor 1 vs 2.1 vs 2.2)

A) The relative position of each FISH probe is shown beside the aCGH results. See Suppl Figure 2A.

B) The number of cells counted and the percentage of each phenotype shown by FISH. See Suppl Figure 2B.
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B) The number of cells counted and the percentage of each phenotype shown by FISH. See Suppl Figure 2B.
Supplemental Figure 8 – Chromosome 17 (Does 2.2 pre-exist?)

A) The relative position of each FISH probe is shown beside the aCGH results. See Suppl Figure 2A.

B) The number of cells counted and the percentage of each phenotype shown by FISH. See Suppl Figure 2B.
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B) The number of cells counted and the percentage of each phenotype shown by FISH. See Suppl Figure 2B.