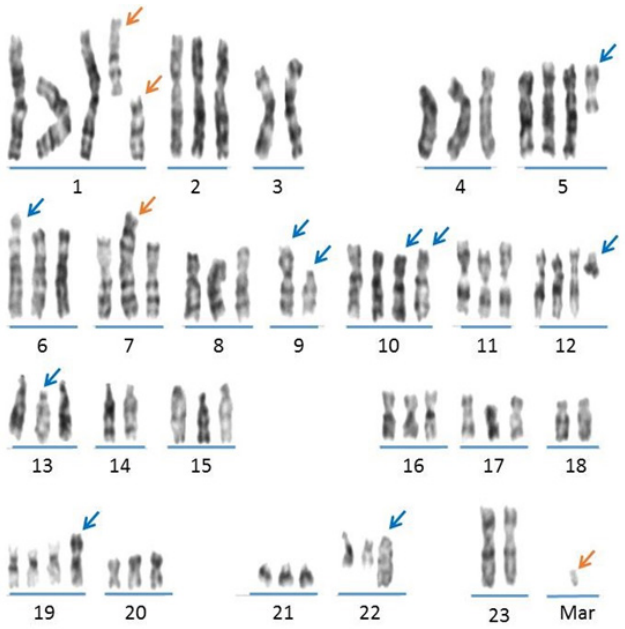

Fig. S1. A representative karyotype of the K562 metaphase. The blue arrows refer to chromosomal abnormalities that had been reported by Naumann *et al.*, while the red arrows refer to those identified in the present study.

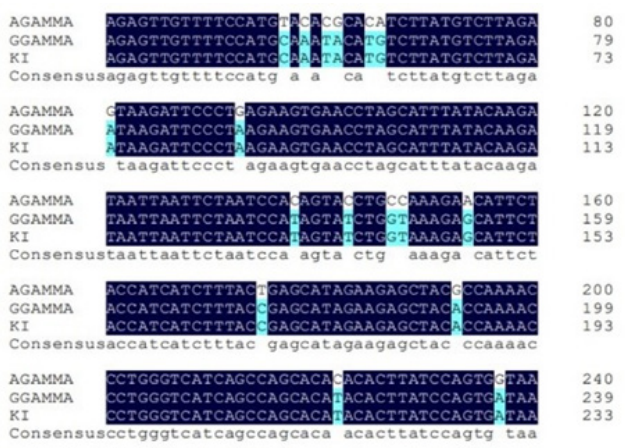

Fig. S2. Verifying integration of the GFP cassette into the Gγ (vs. Aγ) gene. The LHA was PCR amplified from the edited K562 cell population (as described in Material and Methods) and subjected to Sanger sequencing. In the obtained amplicon, DNA sequences outside of the homology arm (termed KI) aligned with the Gγ, and not the Aγ, gene. Alignments were carried out by using the DNAMAN software.

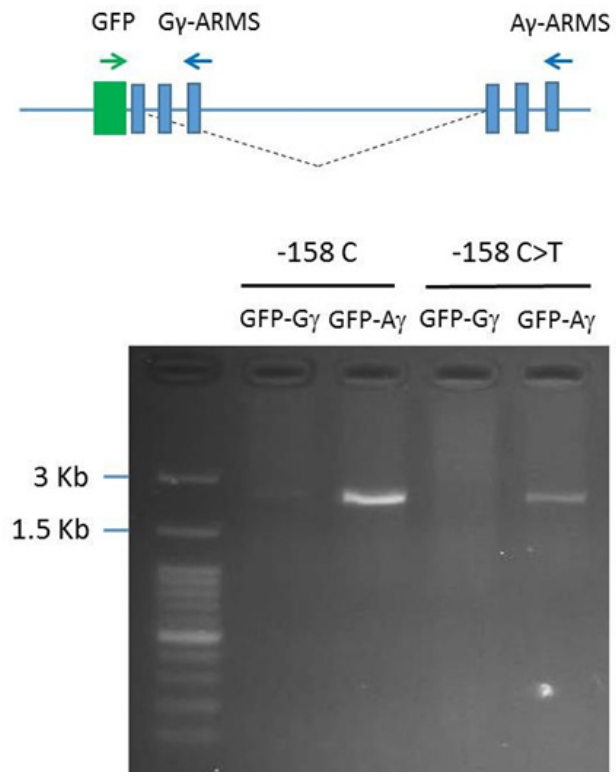

Fig. S3. Detecting replacement of the Gγ-Aγ intergenic region following integration of the GFP cassette. Presence of replacement was verified by using PCR with a GFP-specific F-primer and Gγ- or Aγ-specific ARMS R-primers.