Supplementary data

Validation of DNMT3A R882H quantitative PCR (qPCR)

We prepared serial concentrations $(1\times10^2 \text{ copies/mL to } 1\times10^6 \text{ copies/mL})$ of *DNMT3A* R882H mutation by serial dilutions of plasmid DNA. A linear regression analysis of *DNMT3A* qPCR showed a valid linearity, with R^2 =0.9954, slope=-3.4327, and the y-axis intercept points=41.042. We also performed a sensitivity test using 40 replicates at different concentrations (5,000 copies/mL, 2,500 copies/mL, 1,000 copies/mL, 500 copies/mL, 250 copies/mL, 100 copies/mL). The detection limit of this qPCR method was estimated to be 189 copies/mL for *DNMT3A* mutations. We analyzed 95% probity using the IBM SPSS Statistics 20. The number of copies for *DNMT3A* mutations confirmed in patient samples ranged from 189 copies/mL to 11,192,661 copies/mL. The median number of *DNMT3A* mutant copies was 4,736,001 (60–11192661).