Supplementary Figure 5. Expression of RUNX1/ETO increases mutation frequency after dosing with doxorubicin or ionising radiation (individual clone data).

RUNX1/ETO clones (black bars), low expressing RUNX1/ETO clone (dashed bar) and vector control clones (white bars) were cultured for 3 weeks post cloning before treating with doxorubicin or radiation (as indicated at the top of each panel), allowing two weeks for phenotype development and then assaying for mutation frequency (Mf) at the PIGA (top panels) and TK (bottom panels) genes. The frequency of mutations attributable to doxorubicin or radiation (treatment-induced Mf) was calculated by subtracting the Mf in mock-treated cells from the Mf in doxorubicin or radiation-treated cells. All RUNX1/ETO clones tested had higher PIGA and TK Mf than vector control clones after radiation or doxorubicin treatment, excepting the low expressing clone which did not exhibit any significant increase in PIGA Mf over vector control clones. Negative values treatment-induced mutation frequency are due to some treated samples having slightly lower PIGA Mf than non-treated controls.