## **Expanded View Figures**

## Figure EV1. Analysis of PALB2 mutation in PDX093; RAD51 assay scoring and validation.

- A Sanger sequencing reverse plots of DNA and RNA from PDX093 showing 1 nt (T) insertion in one PALB2 allele (PALB2 c.886dupA).
- B Flow diagram of the RAD51 scoring criteria and quality controls.
- C Quantification of geminin-positive cells with RAD51 foci (Mann–Whitney *U*-test) following treatment with vehicle and olaparib in PARPi-sensitive (CR/PR) versus PARPi-resistant (PD) PDXs.
- D Pearson correlation between the RAD51 score (percentage of RAD51 (+)/Geminin (+) cells, assessed in untreated FFPE tumor samples) and the percentage of tumor volume change in olaparib-treated tumors from PDX cohort-1. Each dot represents one PDX model. Error bars indicate SEM from independent tumors (n ≥ 3) treated with olaparib
- E Quantification of geminin-positive cells (paired t-test in vehicle- versus olaparib-treated tumors; unpaired t-test in CR/PR versus PD tumors) following treatment with vehicle and olaparib in PARPi-sensitive (CR/PR) versus PARPi-resistant (PD) PDXs.
- F Spearman correlation of the percentage of RAD51 (+)/Geminin (+) cells in PDX cohort-1 assessed with two different antibodies against RAD51 both in vehicle- and olaparib-treated PDX samples.

© 2018 The Authors EMBO Molecular Medicine e9172 | 2018 **EV1** 

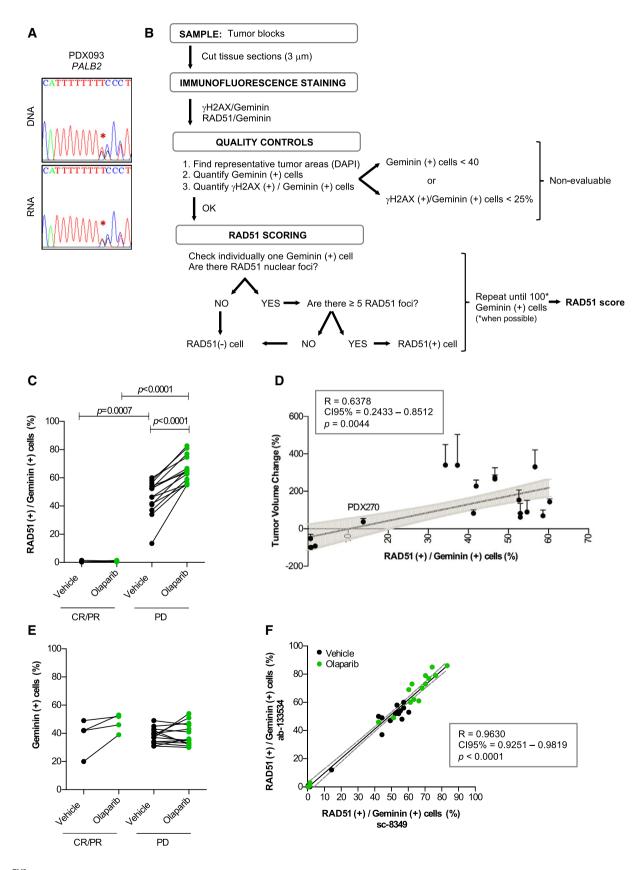


Figure EV1.

EV2

EMBO Molecular Medicine e9172 | 2018 © 2018 The Authors