Tumor responses to olaparib treatment



time (days)

KB1P12

Supplementary Figure S2 Different tumors from the same donor respond similarly



Supplementary Figure S3 Damage induction in control and olaparib-resistant tumors after PARP inhibition



Detection of rearrangements in *Trp53bp1* in the olaparib-resistant tumor KB1PM5



Characterization of tumor-derived cell lines from KB1PM5



В



KB1PM5 olaparib-resistant





D



Supplementary Figure S6 RAD51 and 53BP1 foci in irradiated tumor cell suspensions



53BP1 depletion in *Brca1*^{Δ/Δ};*p53*^{Δ/Δ} mammary tumor cells



Trp53bp1 mRNA sequence:

Exon 22 Exon 23 ...<u>ATCAGCTTAGTCACCAGACAA</u>TTT<u>GGT</u>GGA<u>AGG</u>AAA<u>GCG</u>GAA<u>ACG</u>GCG<u>CA</u> <u>G</u>TAACATCAGCTCCCCAGTCACCCCCACT...

С



Supplementary Figure S8 Loss of 53BP1 in topotecan-resistant tumors



Response of BRCA1-deficient mammary tumors to PARP inhibitor AZD2461





Long-term treatment with PARP-inhibitor AZD2461



