**Supporting Information Reference List**

1. King LE, Love CG, Sieber OM, Faux MC, Burgess AW. Differential RNA-seq analysis comparing APC-defective and APC-restored SW480 colorectal cancer cells. Genomics data. 2016;7:293-6.
2. Smits R, Ruiz P, Diaz-Cano S, Luz A, Jagmohan-Changur S, Breukel C, et al. E-cadherin and adenomatous polyposis coli mutations are synergistic in intestinal tumor initiation in mice. Gastroenterology. 2000;119(4):1045-53.