

Table S1. Panel of 32 genes used for NGS analysis through SOPHiA Custom Hereditary Cancer Solution (CHCS).

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|----------|-------|--------|--------|-------|-------|-------|---------|-------|-------|
| ABRAXAS1 | APC | ATM | BARD1 | BRCA1 | BRCA2 | BRIP1 | CDH1 | CHEK2 | EPCAM |
| MLH1 | MRE11 | MSH2 | MSH6 | MUTYH | NBN | PALB2 | PIK3CA | PMS2 | PTEN |
| PIK3CA | RAD50 | RAD51C | RAD51D | STK11 | TP53 | XRCC2 | FAM175A | MEN1 | CDK4 |
| CDKN2A | RET | | | | | | | | |

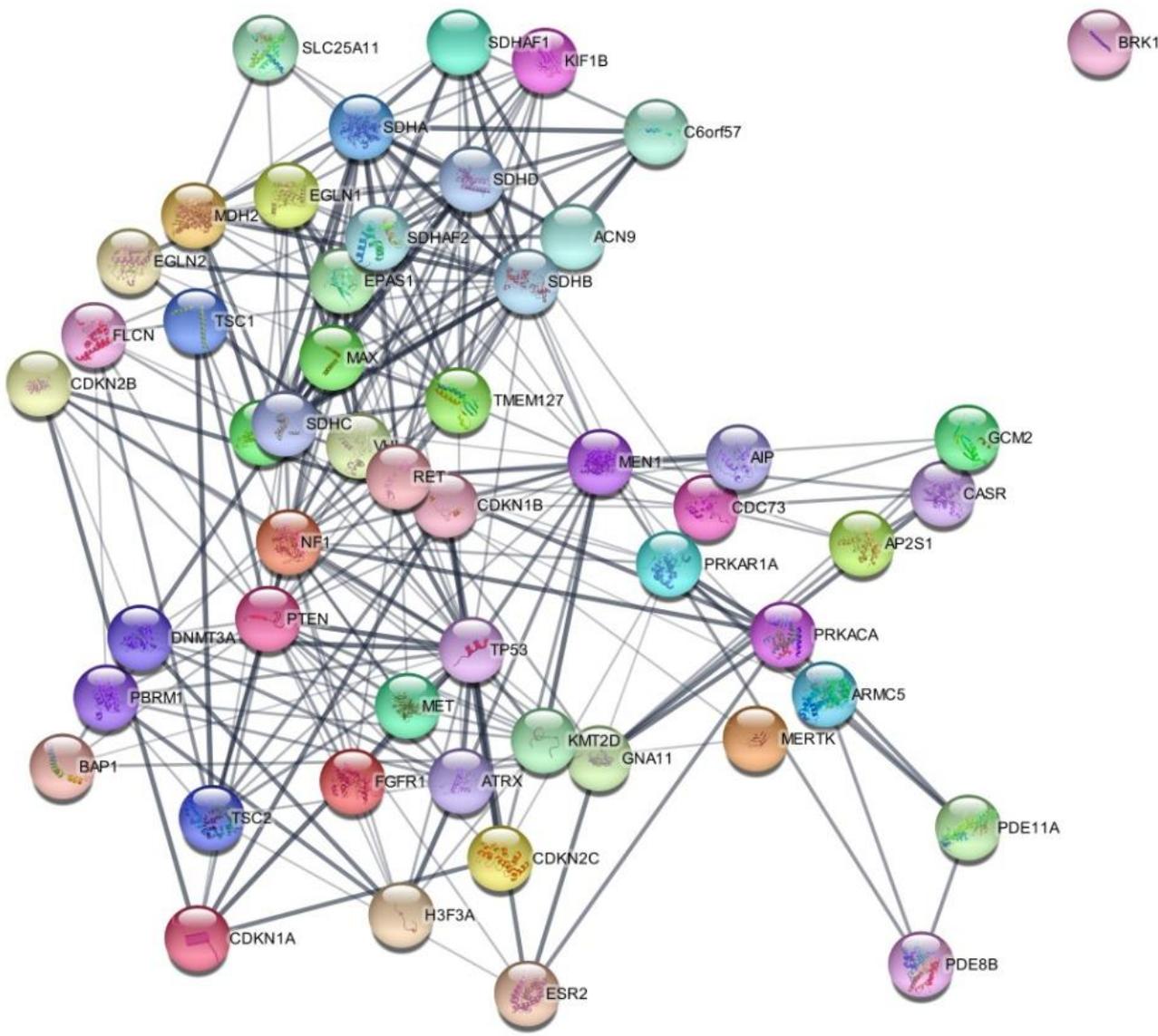


Figure S1. Protein-protein interactions (PPI) network obtained through Cytoscape tool v3.10.0 to define the connections between the proteins encoded by the 52 genes included within the custom panel.