

Table S2: Lists of genes sequenced per panel

Syndrome	Gene	Panel ID		
		TruSeq Panel 1	TruSeq Panel 2	Nextera
Carney-Stratakis Syndrome / Paraganglioma	<i>SDHA</i>	0	0	1
	<i>SDHB</i>	1	1	1
	<i>SDHC</i>	1	0	0
	<i>SDHD</i>	1	1	0
Cowden Syndrome	<i>PTEN</i>	1	1	1
	<i>SDHB</i>	1	1	1
	<i>SDHD</i>	1	1	0
Esophageal Adenocarcinoma/Barrett's Esophagus	<i>AKAP12</i>	1	0	0
	<i>CTHRC1</i>	1	0	0
	<i>FOXF1</i>	1	1	0
	<i>MSR1</i>	1	1	1
Familial Adenomatous Polyposis	<i>APC</i>	1	1	1
Familial Gastric Cancer/Gastric Cancer	<i>MAP3K6</i>	1	1	1
	<i>ARID1A</i>	1	0	0
	<i>ATM</i>	1	1	1
	<i>BCL2L10</i>	1	0	0
	<i>CASP10</i>	1	1	0
	<i>CHEK2</i>	1	0	0
	<i>FAT4</i>	1	0	0
	<i>FHIT</i>	1	1	0
	<i>HSPA5</i>	1	0	0
	<i>IDH1</i>	1	1	0
	<i>IDH2</i>	1	1	0
	<i>PALB2</i>	1	1	1
	<i>PSCA</i>	1	1	0
	<i>RUNX3</i>	0	1	0
	<i>TP53</i>	1	1	0
	<i>ITIH2</i>	1	0	0
	<i>MET</i>	0	1	0
	<i>MTUS1</i>	0	1	1
	<i>BRCA2</i>	1	1	1
	<i>CDH1</i>	1	1	1
<i>CTNNA1</i>	1	1	1	
<i>MSR1</i>	1	1	1	
<i>PRSS1</i>	1	1	1	
<i>SDHB</i>	1	1	1	
<i>STK11</i>	1	1	1	
<i>AKR7A3</i>	1	0	0	
<i>BAX</i>	0	1	0	

	<i>FBXL4</i>	1	0	0
	<i>GAB2</i>	1	0	0
	<i>HIC1</i>	0	1	0
	<i>MCCC1</i>	1	1	0
	<i>NAT2</i>	0	1	0
	<i>NEK1</i>	0	1	0
	<i>PLAU</i>	0	1	0
	<i>PRR5</i>	1	1	0
	<i>PXN</i>	1	1	0
	<i>RAD21</i>	0	0	1
	<i>RHNO1</i>	0	1	0
	<i>RNF43</i>	0	1	0
	<i>SCARF2</i>	1	0	0
	<i>SCTR</i>	0	1	0
	<i>SLC22A4</i>	1	1	0
	<i>TMEFF2</i>	0	1	0
	<i>TNFRSF10B</i>	0	1	0
Hereditary Breast and Ovarian Cancer	<i>BRCA1</i>	1	1	0
	<i>BRCA2</i>	1	1	1
Hereditary mixed polyposis syndrome	<i>GREM1</i>	1	0	0
	<i>SCG5</i>	1	0	0
	<i>TGFBR2</i>	1	0	0
Juvenile polyposis, Pancreatic cancer	<i>BMPR1A</i>	1	1	0
	<i>SMAD4</i>	1	1	0
Lynch syndrome	<i>EPCAM</i>	1	1	0
	<i>MLH1</i>	1	1	1
	<i>MSH2</i>	1	1	1
	<i>MSH3</i>	1	1	1
	<i>MSH6</i>	1	1	1
	<i>PMS1</i>	1	1	0
	<i>PMS2</i>	1	1	0
MUTYH Associated Polyposis	<i>MUTYH</i>	1	1	0
Pancreatic cancer	<i>ATM</i>	1	1	1
	<i>CDKN2A</i>	1	1	0
	<i>CFTR</i>	1	1	0
	<i>PALB2</i>	1	1	1
	<i>PRSS1</i>	1	1	1
	<i>SPINK1</i>	1	1	0
	<i>TP53</i>	1	1	0
Peutz-Jeghers syndrome	<i>STK11</i>	1	1	1

1- present; 0-absent

