

Table S1. Summary of *SDHAF3* c.157T>C (p.Phe53Leu) variant analysis in familial SDH-associated individuals

Family ID	Individual ID	Tumor Details	Primary Germline Mutation	Somatic <i>SDHB</i> Mutation/Allele Status	Germline <i>SDHAF3</i> c.157T>C Status	Somatic <i>SDHAF3</i> c.157T>C/Allele Status
S11	1	PC (metastatic)	SDHB (splice-site)	IVS3 + loss normal allele	c.157T>C	c.157T>C + retention normal allele
S50	1	PGL	SDHB (nonsense)	nd	WT	nd
S15	1	PC (metastatic)	SDHB (splice-site)	nd	WT	nd
S18	1	PGL	SDHB (frameshift)	nd	WT	nd
S24	1	PGL	SDHB (splice-site)	nd	WT	nd
S26	1	PGL	SDHB (missense)	nd	WT	nd
S27	1	PGL	SDHB (frameshift)	nd	WT	nd
S52	1	HN PGL	SDHB (nonsense)	nd	WT	nd
S55	1	HN PGL	SDHB (frameshift)	nd	c.157T>C	nd
S59	1	HN PGL	SDHB (nonsense)	nd	WT	nd
S25	1	HN PGL	SDHB (missense)	nd	WT	nd
S10	1	PGL (metastatic)	SDHB (missense + splice-site)	nd	WT	nd
S16	1	PGL (metastatic)	SDHB (splice-site)	nd	WT	nd
S20	1	PC	SDHB (splice-site)	nd	WT	nd
S37	1	PC (metastatic)	SDHB (splice-site)	nd	WT	nd
S44	1	PC (metastatic)	SDHB (frameshift)	nd	WT	nd
S69	1	PGL	SDHC (nonsense)	nd	WT	nd
S82	1	HN PGL	SDHD (missense)	nd	WT	nd
S83	1	PGL	SDHD (missense)	nd	WT	nd
S84	1	HN PGL	SDHD (frameshift)	nd	WT	nd
S88	1	HN PGL	SDHD (frameshift)	nd	WT	nd
S93	1	PC + HN PGL	SDHD (nonsense)	nd	WT	nd
S105	1	HN PGL	SDHA (missense)	nd	WT	nd

Abbreviations: IVS - intervening sequence; nd - not done; PC - pheochromocytoma; PGL - paraganglioma (extra adrenal thoracic/abdominal); HNPGL (head and neck paraganglioma); WT - wild-type