

**Table S3. Comparison gene mutated and tumor location.**

Location	Number of cases												
	<i>HRAS</i> N=15	P-value <i>HRAS VS RET</i>	<i>RET</i> N=10	<i>EPASI</i> N=6	P-value <i>EPASI VS VHL</i>	P-value <i>EPASI VS SDHB</i>	P-value <i>EPASI VS SDHD</i>	<i>VHL</i> N=12	P-value <i>VHL VS SDHB</i>	P-value <i>VHL VS SDHD</i>	<i>SDHB</i> N=30	P-value <i>SDHB VS SDHD</i>	<i>SDHD</i> N=7
• PCC	12	NS	10	3	NS	NS	NS	10	3.51x10 <sup>-5</sup>	7.14x10 <sup>-4</sup>	4	NS	0
• HN-PGL	0		0	0	NS	NS	0.021	1	NS	0.0095	8	NS	5
• TA-PGL	3	NS	0	3	NS	NS	NS	1	0.0024	NS	18	NS	2
T-PGL	0		0	0		NS		0	NS		5	NS	0
A-PGL	3	NS	0	3	NS	NS	NS	1	0.036	NS	13	NS	2