

Supplementary Table S1: Sequencing platforms of WES.

	Illumina HiSeq 2000		Complete Genomics
Library preparation	SureSelect Agilent 51M	Illumina Nextera Rapid Capture Exome v1.2	BGI 59Mb exome kit
Sequencing instrument	HiSeq 2000	HiSeq 2000	Complete Genomics
Primary analysis	Illumina base calling Software 1.7	Illumina base calling software 1.7	Complete genomics RTA 1.7 software
Alignment	Burrows-Wheeler Aligner (BWA)	Burrows-Wheeler Aligner (BWA)	Teramap
Annotation	GATK workflow (Samtools, Annovar)	GATK workflow (Samtools, Annovar)	GATK workflow (Samtools, Annovar)

Supplementary Table S2: Distribution of sequencing reads obtained by different WES platforms

<i>Mean values</i>	SureSelect Agilent 51M	BGI 59Mb exome kit	Illumina Nextera Rapid Capture Exome v1.2
reads aligned to the human genome (%)	98,68	100	99,88
unique reads (%)	61,6	56,7	53,5
bases corresponding to targeted sequences (%)	51,6	58,9	50,38
target bases with no coverage (%)	1,32	0	0,13

Supplementary Table S3: Mean depth of coverage of PPGL genes obtained during WES.

Gene	SureSelect Agilent 51M, read numbers (range)	BGI 59Mb exome kit read numbers (range)	Illumina Nextera Rapid Capture Exome v1.2 read numbers (range))
<i>EGLN1</i>	112,7 (94,4–140,5)	58,5 (49,1–65,4)	121,4 (97,3–146,7)
<i>EPAS1</i>	110,5 (101–123,5)	77,4 (48,7–89,7)	149,0 (115,7–192,6)
<i>FH</i>	82,6 (73,2–103,2)	58,0 (50,2–68,8)	132,4 (106,2–155,1)
<i>GOT2</i>	77,0 (71,6–85,5)	95,0 (77,4–105,6)	50,6 (40,6–61,3)
<i>KIF1B</i>	141,8 (132,4–155,3)	103,5 (84–116,6)	148,9 (120–184,2)
<i>MAX</i>	105,3 (92–126,7)	80,8 (66,5–87,4)	147,8 (120–184,2)
<i>MDH2</i>	105,2 (96,5–117,7)	90,7 (98,7–103,8)	58,8 (46,2–71,7)
<i>MEN1</i>	122,5 (112–143,5)	95,7 (68,9–109,2)	110,4 (94,2–143,7)
<i>NF1</i>	84,5 (78–100)	109,4 (95,2–124,1)	129,6 (100–158,2)
<i>RET</i>	97,2 (87,6–107,8)	68,7 (48,2–75,7)	132,3 (106,5–173,6)
<i>SDHA</i>	11,7 (10,5–14,4)	66,3 (59,6–71,8)	175,9 (147,8–217,5)
<i>SDHAF2</i>	118,8 (112,5–128,3)	90,2 (81,1–108,4)	166,9 (145–205,7)
<i>SDHB</i>	98,8 (85,3–112,8)	52,9 (41,2–62,6)	158,1 (117,7–199,2)
<i>SDHC</i>	34,4 (28,1–42,9)	114,8 (90,8–127,3)	186,9 (140,3–227)
<i>SDHD</i>	19,4 (14,7–23,6)	118,2 (102,3–130,4)	138,3 (101,5–172,3)
<i>SLC25A11</i>	141,4 (126,2–165,3)	147,6 (101,5–169,2)	62,8 (51,8–81,8)
<i>TMEM127</i>	84,8 (70,9–90,7)	47,0 (31,3–53,1)	112,8 (86,8–144)
<i>VHL</i>	126,3 (116,9–143,9)	59,5 (49–67,9)	126,2 (105–164,2)