

**Table S1.** Total number of variants and subtypes for each BPV type identified in this study.

BPV TYPE	VARIANTS	SUBTYPES	TOTAL
BPV1	1	0	1
BPV2	5	2	7
BPV4	1	0	1
BPV5	0	2	2
BPV11	4	0	4
BPV13	3	0	3
BPV14	1	0	1
BPV24	1	0	1
BPV25	8	0	8
BPV26	6	4	10

**Table S2.** Mutations found in the BPV1 L1 gene sequence. The dot (.) symbolizes that the site is the same as the reference sequence.

<b>DNA</b>	<b>158</b>	<b>159</b>	<b>164</b>	<b>187</b>	<b>188</b>	<b>314</b>	<b>330</b>	<b>527</b>
<b>BPV1REF</b>	T	C	C	G	C	G	A	T
<b>BPVUFSBR-04</b>	A	T	A	A	A	T	G	C
<b>AMINO ACID</b>	<b>53</b>	<b>53</b>	<b>55</b>	<b>63</b>	<b>63</b>	<b>105</b>	<b>110</b>	<b>176</b>
<b>BPV1REF</b>	I	I	A	A	A	R	G	L
<b>BPVUFSBR-04</b>	N	N	D	K	K	I	.	P

**Table S3.** Mutations found in the BPV4 L1 gene sequences. The dot (.) symbolizes that the site is the same as the reference sequence.

DNA	399	408
BPV4REF	T	C
BPVUFSBR-01	G	T
BPVUFSBR-03	.	.

**Table S4.** Mutations found in the BPV5 L1 gene sequences.

DNA	147	156	174	349	351	354
BPV5REF	C	T	A	T	G	T
BPVUFSBR-32	T	C	T	C	C	C
BPVUFSBR-33	T	C	T	C	C	C

**Table S5.** Mutations found in the BPV11 L1 gene sequences. The dot (.) symbolizes that the site is the same as the reference sequence.

DNA	327	566	588
BPV11REF	A	A	T
BPVUFSBR-13	T	G	C
BPVUFSBR-16	T	.	C
BPVUFSBR-17	T	.	C
BPVUFSBR-18	T	.	C
AMINO ACID	109	189	196
BPV11REF	G	K	G
BPVUFSBR-13	.	R	.
BPVUFSBR-16	.	.	.
BPVUFSBR-17	.	.	.
BPVUFSBR-18	.	.	.

**Table S6.** Mutations found in the BPV13 L1 gene sequences. The dot (.) symbolizes that the site is the same as the reference sequence.

DNA	144	525	582
BPV13REF	C	G	A
BPVUFSBR-14	T	A	C
BPVUFSBR-15	T	A	C
BPVUFSBR-29	T	.	C

**Table S7.** Mutations found in the BPV14 L1 gene sequences. The dot (.) symbolizes that the site is the same as the reference sequence.

<b>DNA</b>	<b>659</b>	<b>668</b>	<b>681</b>
<b>BPV14REF</b>	A	T	T
<b>BPVUFSBR-12</b>	C	A	C
<b>AMINO ACID</b>	<b>220</b>	<b>223</b>	<b>227</b>
<b>BPV14REF</b>	H	I	D
<b>BPVUFSBR-12</b>	P	K	.

**Table S8.** Mutations found in the BPV24 L1 gene sequences. The dot (.) symbolizes that the site is the same as the reference sequence.

DNA	339	394	395	417
BPV24REF	T	A	A	T
BPVUFSBR-35	A	G	G	A
AMINO ACID	113	132	132	139
BPV24REF	G	N	N	D
BPVUFSBR-35	.	G	G	E



**Table S9.** Mutations found in the BPV25 L1 gene sequences. The dot (.) symbolizes that that site is the same as the reference sequence. The hyphen (-) symbolizes a non-sequenced site.

DNA	135	502	579
BPV25REF	A	G	A
BPVUFSBR-40	G	C	C
BPVUFSBR-41	G	C	C
BPVUFSBR-42	G	C	C
BPVUFSBR-43	G	C	C
BPVUFSBR-46	G	C	C
BPVUFSBR-50	G	C	C
BPVUFSBR-51	G	C	C
BPVUFSBR-52	G	-	-
AMINO ACID	45	168	193
BPV25REF	V	A	G
BPVUFSBR-40	.	P	.
BPVUFSBR-41	.	P	.
BPVUFSBR-42	.	P	.
BPVUFSBR-43	.	P	.
BPVUFSBR-46	.	P	.
BPVUFSBR-50	.	P	.
BPVUFSBR-51	.	P	.
BPVUFSBR-52	.	-	-



**Table S11.** Mutations found in the BPV26 L1 gene sequences. The dot (.) symbolizes that that site is the same as the reference sequence. The hyphen (-) symbolizes a non-sequenced site.

DNA	147	156	157	170	177	192	201	217	219	234	237
BPV26REF	A	T	T	C	A	T	C	A	G	C	T
BPVUFSBR-21	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-22	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-23	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-24	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-25	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-26	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-27	G	.	.	G	.	C	T	.	.	T	.
BPVUFSBR-37	.	C	C	G	T	.	T	C	A	.	A
BPVUFSBR-38	.	C	C	G	T	.	T	C	A	.	A
BPVUFSBR-39	.	C	C	G	T	.	T	C	A	.	A
AMINO ACID	49	52	53	57	59	64	67	73	73	78	79
BPV26REF	P	D	L	A	T	V	S	R	R	D	P
BPVUFSBR-21	-	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-22	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-23	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-24	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-25	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-26	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-27	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-37	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-38	.	.	.	G	.	.	.	.	.	.	.
BPVUFSBR-39	.	.	.	G	.	.	.	.	.	.	.

**Table S11.** (Continuation) Mutations found in the BPV26 L1 gene sequences. The dot (.) symbolizes that that site is the same as the reference sequence. The hyphen (-) symbolizes a non-sequenced site.

[illegible]

**Table S11.** (Continuation) Mutations found in the BPV26 L1 gene sequences. The dot (.) symbolizes that that site is the same as the reference sequence. The hyphen (-) symbolizes a non-sequenced site.

[illegible]

**Table S11.** (Continuation) Mutations found in the BPV26 L1 gene sequences. The dot (.) symbolizes that that site is the same as the reference sequence. The hyphen (-) symbolizes a non-sequenced site.

[illegible]

**Table S12.** GenBank accession number of the sequences obtained in this study.

BPV ISOLATE	GENBANK ACCESSION NUMBER
BPVUFSBR-01	MT674570
BPVUFSBR-02	MT674571
BPVUFSBR-03	MT674572
BPVUFSBR-04	MT674573
BPVUFSBR-05	MT674574
BPVUFSBR-06	MT674575
BPVUFSBR-07	MT674576
BPVUFSBR-08	MT674577
BPVUFSBR-09	MT674578
BPVUFSBR-10	MT674579
BPVUFSBR-11	MT674580
BPVUFSBR-12	MT674581
BPVUFSBR-13	MT674582
BPVUFSBR-14	MT674583
BPVUFSBR-15	MT674584
BPVUFSBR-16	MT674585
BPVUFSBR-17	MT674586
BPVUFSBR-18	MT674587
BPVUFSBR-19	MT674588
BPVUFSBR-20	MT674589
BPVUFSBR-21	MT674590
BPVUFSBR-22	MT674591
BPVUFSBR-23	MT674592
BPVUFSBR-24	MT674593
BPVUFSBR-25	MT674594
BPVUFSBR-26	MT674595
BPVUFSBR-27	MT674596
BPVUFSBR-28	MT674597
BPVUFSBR-29	MT674598
BPVUFSBR-30	MT674599
BPVUFSBR-31	MT674600
BPVUFSBR-32	MT674601
BPVUFSBR-33	MT674602
BPVUFSBR-34	MT674603
BPVUFSBR-35	MT674604
BPVUFSBR-36	MT674605
BPVUFSBR-37	MT674606
BPVUFSBR-38	MT674607
BPVUFSBR-39	MT674608
BPVUFSBR-40	MT674609
BPVUFSBR-41	MT674610
BPVUFSBR-42	MT674611
BPVUFSBR-43	MT674612
BPVUFSBR-44	MT674613
BPVUFSBR-45	MT674614
BPVUFSBR-46	MT674615
BPVUFSBR-47	MT674616
BPVUFSBR-48	MT674617
BPVUFSBR-49	MT674618
BPVUFSBR-50	MT674619
BPVUFSBR-51	MT674620
BPVUFSBR-52	MT674621