

Online Supplemental Information

Understanding the genetic diversity of Picobirnavirus: a classification update based on phylogenetic and pairwise sequence comparison approaches.

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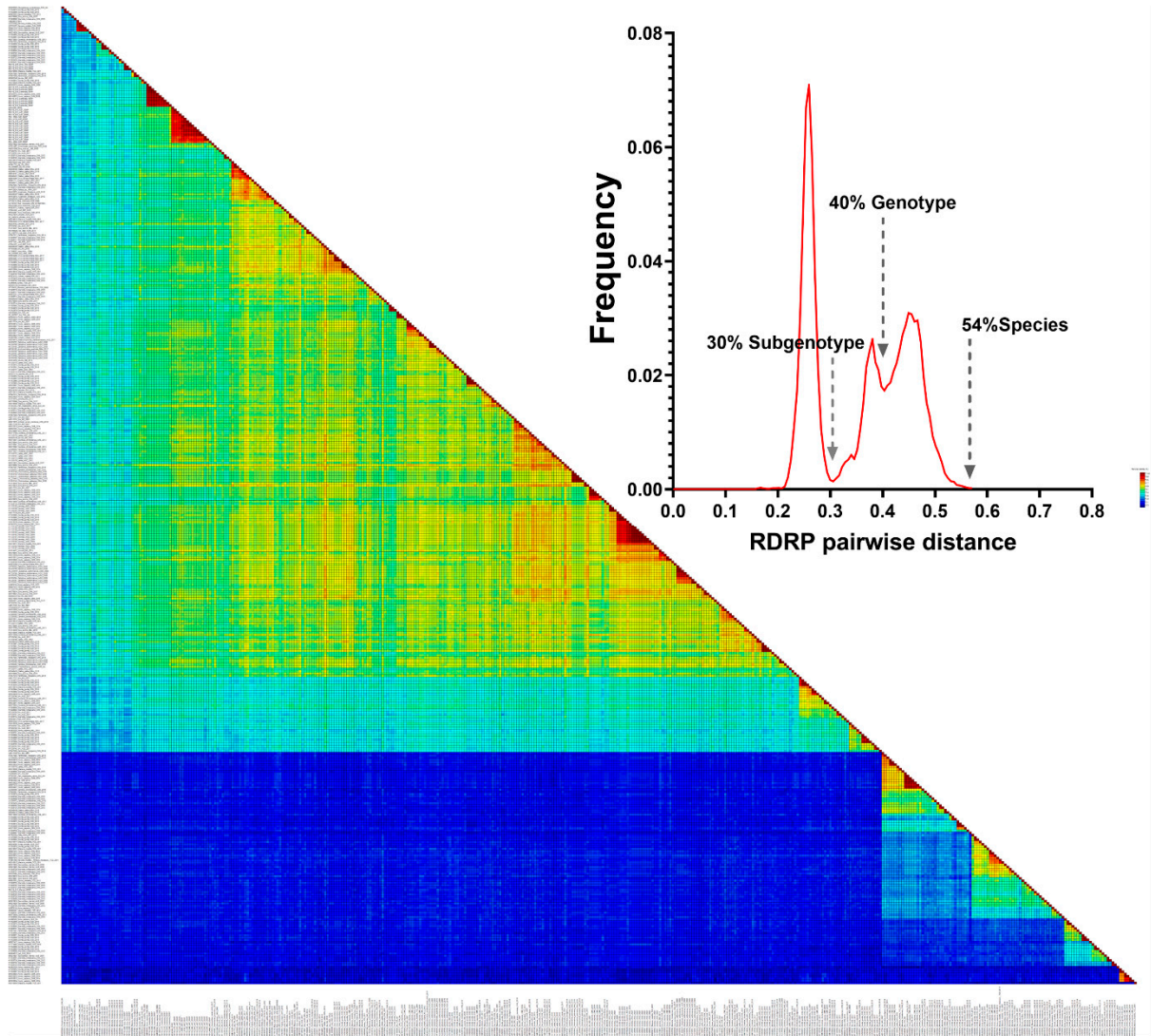


Figure S1. Frequency distribution of pairwise distance and clustering pattern for all lineages of PBV for RdRp. Results obtained from SDT represented by a color-coded pairwise identity matrix generated from the 403 RdRp complete coding sequences of PBV included in the current study. Each colored cell represents a percentage of identity score between two sequences (one indicated horizontally to the left and the other vertically at the bottom). A colored key indicates the correspondence between pairwise identities and the colors displayed in the matrix. Pairwise identity frequency distribution plot is also shown. The horizontal axis indicates percentage pairwise distance. The cut-off values for sub-genotype, genotype and species were also denoted.

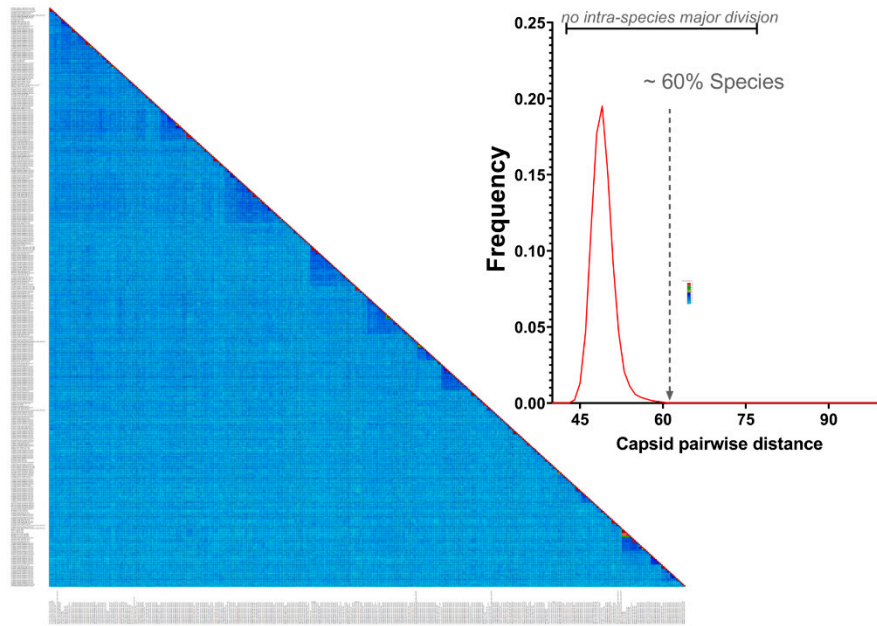


Figure S2. Frequency distribution of pairwise distance and clustering pattern for all lineages of PBV for capsid. Results obtained from SDT represented by a color-coded pairwise identity matrix generated from the 422 complete capsid coding sequences of PBV included in the current study. Each colored cell represents a percentage of identity score between two sequences (one indicated horizontally to the left and the other vertically at the bottom). A colored key indicates the correspondence between pairwise identities and the colors displayed in the matrix. Pairwise identity frequency distribution plot is also shown. The horizontal axis indicates percentage pairwise distance. The lack of intra-species division and the cut-off value for species demarcation are denoted.

Supplemental Table S1. Listing of GenBank RDRP references.

GenBank ID	Host	Country code	Years
AB186898	<i>NA THA</i>	NA	NA
AB517731	<i>NA IND</i>	IND	2007
AB517732	<i>NA IND</i>	IND	2007
AB517733	<i>NA IND</i>	IND	2007
AB517734	<i>NA IND</i>	IND	2007
AB517735	<i>NA IND</i>	IND	2007
AB517736	<i>NA IND</i>	IND	2007
AB517737	<i>NA IND</i>	IND	2007
AB517738	<i>NA IND</i>	IND	2007
AB517739	<i>NA IND</i>	IND	2008
AB828072	<i>Bos taurus</i>	CHN	NA
AF246939	<i>NA</i>	TCD	NA
AF246940	<i>NA</i>	NA	NA
GQ221268	<i>Bos indicus</i>	IND	2005
GQ915026	<i>Homo sapiens</i>	TCD	2004
GQ915029	<i>Homo sapiens</i>	TCD	NA
GU968924	<i>Homo sapiens</i>	NLD	2007
HM070240	<i>Sus scrofa</i>	CHN	2010
JF755419	<i>Mus musculus</i>	TCD	2008
JF755420	<i>Microtus pennsylvanicus</i>	TCD	2008
JQ710506	<i>Macaca mulatta</i>	CHN	2002
JQ710507	<i>Macaca mulatta</i>	CHN	2002
JQ776552	<i>Zalophus californianus</i>	AGO	2008
KC692366	<i>Vulpes vulpes</i>	NLD	2012
KF792838	<i>Felis Felis catusus</i>	PRT	2012
KF823810	<i>Vulpes vulpes</i>	ESP	2013
KF823811	<i>Vulpes vulpes</i>	ESP	2013
KF861773	<i>Sus scrofa</i>	ITA	2004
KJ206569	<i>Homo sapiens</i>	NLD	NA
KJ495690	<i>Meleagris gallopavo</i>	TCD	2011
KJ663814	<i>Homo sapiens</i>	TCD	2013
KJ663816	<i>Homo sapiens</i>	TCD	2013
KM254161	<i>Gallus gallus</i>	ZAF	2013
KM254162	<i>Gallus gallus</i>	ZAF	2013
KM254164	<i>Gallus gallus</i>	ZAF	2013
KM285233	<i>Homo sapiens</i>	KHM	2009
KM285234	<i>Homo sapiens</i>	KHM	2009
KM573798	<i>Camelus dromedarius</i>	ARE	2013
KM573799	<i>Camelus dromedarius</i>	ARE	2013
KM573800	<i>Camelus dromedarius</i>	ARE	2013
KM573801	<i>Camelus dromedarius</i>	ARE	2013
KM573802	<i>Camelus dromedarius</i>	ARE	2013
KM573803	<i>Camelus dromedarius</i>	ARE	2013
KM573804	<i>Camelus dromedarius</i>	ARE	2013
KM573805	<i>Camelus dromedarius</i>	ARE	2013
KM573806	<i>Camelus dromedarius</i>	ARE	2013
KM573807	<i>Camelus dromedarius</i>	ARE	2013
KM573808	<i>Camelus dromedarius</i>	ARE	2013
KM573809	<i>Camelus dromedarius</i>	ARE	2013
KP941111	<i>Vulpes vulpes</i>	HRV	2014
KP984805	<i>Sus scrofa</i>	CHN	2012
KR106195	<i>Arctocephalus australis</i>	BRA	2012
KR827412	<i>Homo sapiens</i>	CHN	2012
KR827413	<i>Homo sapiens</i>	CHN	2012
KR827414	<i>Homo sapiens</i>	CHN	2012

KR827415	<i>Homo sapiens</i>	CHN	2013
KR827416	<i>Homo sapiens</i>	CHN	2013
KR827417	<i>Homo sapiens</i>	CHN	2014
KR827418	<i>Homo sapiens</i>	CHN	2013
KR902502	<i>Equus caballus</i>	TCD	2012
KR902503	<i>Equus caballus</i>	TCD	2012
KR902505	<i>Equus caballus</i>	TCD	2012
KR902507	<i>Equus caballus</i>	TCD	2012
KT934307	<i>Canis lupus</i>	PRT	2015
KT934308	<i>Canis lupus</i>	PRT	2015
KT984499	<i>Macaca mulatta</i>	TCD	2014
KU729755	<i>Zalophus californianus</i>	AGO	2008
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KU729757	<i>Zalophus californianus</i>	AGO	2008
KU729758	<i>Zalophus californianus</i>	AGO	2008
KU729759	<i>Zalophus californianus</i>	AGO	2008
KU729760	<i>Zalophus californianus</i>	AGO	2008
KU729761	<i>Zalophus californianus</i>	AGO	2009
KU729762	<i>Zalophus californianus</i>	AGO	2009
KU729763	<i>Zalophus californianus</i>	AGO	2009
KU729764	<i>Zalophus californianus</i>	AGO	2009
KU729765	<i>Zalophus californianus</i>	AGO	2009
KU729766	<i>Zalophus californianus</i>	AGO	2009
KU729767	<i>Zalophus californianus</i>	AGO	2009
KU729768	<i>Zalophus californianus</i>	AGO	2010
KU729769	<i>Zalophus californianus</i>	AGO	2010
KU892528	<i>Homo sapiens</i>	BEL	2010
KU892529	<i>Homo sapiens</i>	BEL	2010
KU892530	<i>Homo sapiens</i>	BEL	2010
KX374476	<i>Bos taurus</i>	IND	2015
KX374477	<i>Sus scrofa</i>	IND	2013
KX374478	<i>Sus scrofa</i>	IND	2013
KY053140	<i>Chlorocebus sabaeus</i>	KNA	2015
KY053141	<i>Chlorocebus sabaeus</i>	KNA	2015
KY053142	<i>Chlorocebus sabaeus</i>	KNA	2015
KY053143	<i>Chlorocebus sabaeus</i>	KNA	2015
KY120170	<i>Felis catustle</i>	AGO	2012
KY120171	<i>Felis catustle</i>	AGO	2012
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KY120193	<i>Simiiformes</i>	AGO	2009
KY120194	<i>Simiiformes</i>	AGO	2009
KY174983	<i>Macaca mulatta</i>	TCD	2012
KY214430	<i>Sus scrofa</i>	BEL	2015
KY214431	<i>Sus scrofa</i>	BEL	2015
KY214432	<i>Sus scrofa</i>	BEL	2015
KY399057	<i>Canis lupus</i>	KNA	2015
KY502850	<i>Gorilla gorilla</i>	COD	2015
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KY928737	<i>Marmota himalayana</i>	CHN	2013
KY928738	<i>Marmota himalayana</i>	CHN	2013
LC110353	<i>Mus musculus</i>	JPN	2015
LC338002	<i>Camelus dromedaries</i>	ARE	2013
LC338003	<i>Camelus dromedaries</i>	ARE	2013
LC338004	<i>Camelus dromedaries</i>	ARE	2013
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LC338007	<i>Camelus dromedaries</i>	ARE	2013
LC338008	<i>Camelus dromedaries</i>	ARE	2013
LC338009	<i>Camelus dromedaries</i>	ARE	2013
MF071281	<i>Felis catus</i>	KNA	2014
MF416389	<i>Mus musculus</i>	TCD	2015
MF416390	<i>Mus musculus</i>	TCD	2014
MF416391	<i>Mus musculus</i>	TCD	2014
MG003334	<i>Camelus dromedarius</i>	IND	2016
MG003339	<i>Bos taurus</i>	IND	2015
MG003340	<i>Bos taurus</i>	IND	2015
MG003341	<i>Bos taurus</i>	IND	2015
MG010904	<i>Macaca mulatta</i>	TCD	2011
MG010905	<i>Macaca mulatta</i>	TCD	2011
MG010906	<i>Macaca mulatta</i>	TCD	2011
MG010907	<i>Macaca mulatta</i>	TCD	2011
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MG010911	<i>Macaca mulatta</i>	TCD	2011
MG010912	<i>Macaca mulatta</i>	TCD	2011
MG010913	<i>Macaca mulatta</i>	TCD	2011
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MG010920	<i>Macaca mulatta</i>	TCD	2011
MG010921	<i>Macaca mulatta</i>	TCD	2011
MG190029	<i>Roe deer</i>	SVN	2014
MG571903	<i>Homo sapiens</i>	SEN	2015
MG571907	<i>Homo sapiens</i>	SEN	2015
MG600063	<i>Parupeneus cyclostomus</i>	CHN	NA
MG600064	<i>Tropidophorus sinicus</i>	CHN	NA
MG821233	<i>Caprine</i>	IND	2015
MG846401	<i>Gallus gallus</i>	BRA	2015
MG846402	<i>Gallus gallus</i>	BRA	2015
MG846403	<i>Gallus gallus</i>	BRA	2015
MG846404	<i>Gallus gallus</i>	BRA	2015
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MG846410	<i>Gallus gallus</i>	BRA	2015
MG846411	<i>Gallus gallus</i>	BRA	2015
MG846412	<i>Gallus gallus</i>	BRA	2015
MH327934	<i>Gallus gallus</i>	HUN	2011

MH412924	<i>Rattus sp.</i>	KNA	2017
MH453875	<i>Australian Shelduck</i>	AUS	2012
MH453878	<i>Australian Shelduck</i>	AUS	2012
MH933801	<i>Homo sapiens</i>	CMR	2014
MH933802	<i>Homo sapiens</i>	CMR	2014
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MH933836	<i>Homo sapiens</i>	CMR	2014
MH933839	<i>Homo sapiens</i>	CMR	2014
MH933841	<i>Homo sapiens</i>	CMR	2014
MK064212	<i>Chiroptera</i>	CHN	2016
MK064213	<i>Chiroptera</i>	CHN	2016
MK204395	<i>Anas gracilis</i>	AUS	2017
MK204418	<i>Malacorhynchus membranaceus</i>	AUS	2017
MK305310	<i>Homo sapiens</i>	AGO	2018
MK378834	<i>Sus scrofa</i>	CHN	2017
MK378835	<i>Sus scrofa</i>	CHN	2017
MK378843	<i>Sus scrofa</i>	CHN	2017
MK378844	<i>Sus scrofa</i>	CHN	2017
MK378845	<i>Sus scrofa</i>	CHN	2017
MK378851	<i>Sus scrofa</i>	CHN	2017
MK378856	<i>Sus scrofa</i>	CHN	2017
MK378859	<i>Sus scrofa</i>	CHN	2017
MK378860	<i>Sus scrofa</i>	CHN	2017
MK378865	<i>Sus scrofa</i>	CHN	2017
MK378866	<i>Sus scrofa</i>	CHN	2017
MK378867	<i>Sus scrofa</i>	CHN	2017
MK378868	<i>Sus scrofa</i>	CHN	2017
MK378869	<i>Sus scrofa</i>	CHN	2017
MK378870	<i>Sus scrofa</i>	CHN	2017
MK378876	<i>Sus scrofa</i>	CHN	2017
MK521919	<i>Sarcophilus harrisii</i>	AUS	2017

MK521920	<i>Sarcophilus harrisii</i>	AUS	2016
MK521921	<i>Sarcophilus harrisii</i>	AUS	2017
MK521922	<i>Sarcophilus harrisii</i>	AUS	2017
MK521923	<i>Sarcophilus harrisii</i>	AUS	2017
MK521924	<i>Sarcophilus harrisii</i>	AUS	2016
MK521925	<i>Sarcophilus harrisii</i>	AUS	2016
MK521926	<i>Sarcophilus harrisii</i>	AUS	2017
MN145873	<i>Homo sapiens</i>	CHN	2018
MN563295	<i>Urva auropunctata</i>	KNA	2017
MN563296	<i>Urva auropunctata</i>	KNA	2017
MN563297	<i>Urva auropunctata</i>	KNA	2017
MN563298	<i>Urva auropunctata</i>	KNA	2017
MN563299	<i>Urva auropunctata</i>	KNA	2017
MN563300	<i>Urva auropunctata</i>	KNA	2017
MN563301	<i>Urva auropunctata</i>	KNA	2017
MN563302	<i>Urva auropunctata</i>	KNA	2017
MN692671	<i>Macaca fascicularis</i>	THA	2017
MN871976	<i>Chlorocebus sabaeus</i>	CHN	2018
MT129742	NA	AUS	2017
MT129743	NA	AUS	2017
MT129744	NA	AUS	2017
MT129745	NA	AUS	2017
MT129746	NA	AUS	2017
MT129747	NA	AUS	2017
MT129748	NA	AUS	2017
MT129749	NA	AUS	2017
MT129750	NA	AUS	2017
MT129751	NA	AUS	2017
MT129752	NA	AUS	2017
MT129753	NA	AUS	2017
MT150089	NA	NA	2018
MT341487	<i>Actinonaias pectorosa</i>	TCD	2018
MT350351	<i>Pan troglodytes</i>	SLE	NA
MT350352	<i>Pan troglodytes</i>	SLE	NA
MT846991	<i>Panholops hodgsonii</i>	CHN	2014
MT847000	<i>Panholops hodgsonii</i>	CHN	2014
MT847001	<i>Panholops hodgsonii</i>	CHN	2014
MT847002	<i>Panholops hodgsonii</i>	CHN	2014
MT847003	<i>Panholops hodgsonii</i>	CHN	2014
MT847004	<i>Panholops hodgsonii</i>	CHN	2014
MT847005	<i>Panholops hodgsonii</i>	CHN	2014
MT847006	<i>Panholops hodgsonii</i>	CHN	2014
MT847007	<i>Panholops hodgsonii</i>	CHN	2014
MT847008	<i>Panholops hodgsonii</i>	CHN	2014
MT847009	<i>Panholops hodgsonii</i>	CHN	2014
MT847010	<i>Panholops hodgsonii</i>	CHN	2014
MT847011	<i>Panholops hodgsonii</i>	CHN	2014
MT847012	<i>Panholops hodgsonii</i>	CHN	2014
NC 007027	NA	THA	NA
NC 29802	<i>Sus scrofa</i>	ITA	2004
NC 34161	<i>Zalophus californianus</i>	AGO	2008
NC 34452	<i>Chlorocebus sabaeus</i>	KNA	2015
NC 35206	<i>Canis lupus</i>	KNA	2015
NC 40439	<i>Gallus gallus</i>	HUN	2011
NC 40753	<i>Roe deer</i>	SVN	2014

Supplemental Table S2. Listing of GenBank Capsid references.

GenBank ID	Host	Country code	Years
JQ776551	<i>Zalophus californianus</i>	AGO	2005
KF861768	<i>Sus scrofa</i>	ITA	2004
KF861770	<i>Sus scrofa</i>	ITA	2004
KF861771	<i>Sus scrofa</i>	ITA	2004
KF861772	<i>Sus scrofa</i>	ITA	2004
KJ206568	<i>Homo sapiens</i>	NLD	NA
KJ495689	<i>Meleagris gallopavo</i>	TCD	2011
KJ663815	<i>Homo sapiens</i>	TCD	2013
KM573778	<i>Camelus dromedarius</i>	ARE	2013
KM573779	<i>Camelus dromedarius</i>	ARE	2013
KM573780	<i>Camelus dromedarius</i>	ARE	2013
KM573781	<i>Camelus dromedarius</i>	ARE	2013
KM573782	<i>Camelus dromedarius</i>	ARE	2013
KM573783	<i>Camelus dromedarius</i>	ARE	2013
KM573784	<i>Camelus dromedarius</i>	ARE	2013
KM573785	<i>Camelus dromedarius</i>	ARE	2013
KM573786	<i>Camelus dromedarius</i>	ARE	2013
KM573787	<i>Camelus dromedarius</i>	ARE	2013
KM573788	<i>Camelus dromedarius</i>	ARE	2013
KM573789	<i>Camelus dromedarius</i>	ARE	2013
KM573790	<i>Camelus dromedarius</i>	ARE	2013
KM573791	<i>Camelus dromedarius</i>	ARE	2013
KM573792	<i>Camelus dromedarius</i>	ARE	2013
KM573794	<i>Camelus dromedarius</i>	ARE	2013
KM573795	<i>Camelus dromedarius</i>	ARE	2013
KM573796	<i>Camelus dromedarius</i>	ARE	2013
KM573797	<i>Camelus dromedarius</i>	ARE	2013
KR902502	<i>Equus caballus</i>	TCD	2012
KR902504	<i>Equus caballus</i>	TCD	2012
KR902506	<i>Equus caballus</i>	TCD	2012
KR902508	<i>Equus caballus</i>	TCD	2012
KT934309	<i>Canis lupus</i>	PRT	2015
KT934310	<i>Canis lupus</i>	PRT	2015
KU729746	<i>Zalophus californianus</i>	AGO	2008
KU729747	<i>Zalophus californianus</i>	AGO	2009
KU729748	<i>Zalophus californianus</i>	AGO	2009
KU729749	<i>Zalophus californianus</i>	AGO	2008
KU729750	<i>Zalophus californianus</i>	AGO	2009
KU729751	<i>Zalophus californianus</i>	AGO	2009
KU729752	<i>Zalophus californianus</i>	AGO	2009
KU729753	<i>Zalophus californianus</i>	AGO	2009
KU729754	<i>Zalophus californianus</i>	AGO	2008
KU892524	<i>Homo sapiens</i>	BEL	2010
KU892525	<i>Homo sapiens</i>	BEL	2010
KU892526	<i>Homo sapiens</i>	BEL	2010
KU892527	<i>Homo sapiens</i>	BEL	2010
KY174982	<i>Macaca mulatta</i>	TCD	2012
KY214426	<i>Sus scrofa</i>	BEL	2015
KY214427	<i>Sus scrofa</i>	BEL	2015
KY214428	<i>Sus scrofa</i>	BEL	2015
KY214429	<i>Sus scrofa</i>	BEL	2015
KY502835	<i>Gorilla gorilla</i>	COD	2015
KY502836	<i>Gorilla gorilla</i>	COD	2015
KY502837	<i>Gorilla gorilla</i>	COD	2015
KY502838	<i>Gorilla gorilla</i>	COD	2015
KY502839	<i>Gorilla gorilla</i>	COD	2015

KY502840	<i>Gorilla gorilla</i>	COD	2015
KY502841	<i>Gorilla gorilla</i>	COD	2015
KY502842	<i>Gorilla gorilla</i>	COD	2015
KY502843	<i>Gorilla gorilla</i>	COD	2015
KY502845	<i>Gorilla gorilla</i>	COD	2015
KY502846	<i>Gorilla gorilla</i>	COD	2015
KY502847	<i>Gorilla gorilla</i>	COD	2015
KY502848	<i>Gorilla gorilla</i>	COD	2015
KY502849	<i>Gorilla gorilla</i>	COD	2015
KY502857	<i>Gorilla gorilla</i>	COD	2015
KY502858	<i>Gorilla gorilla</i>	COD	2015
KY502859	<i>Gorilla gorilla</i>	COD	2015
KY502860	<i>Gorilla gorilla</i>	COD	2015
KY502878	<i>Gorilla gorilla</i>	COD	2015
KY502932	<i>Gorilla gorilla</i>	COD	2015
KY502935	<i>Gorilla gorilla</i>	COD	2015
KY502937	<i>Gorilla gorilla</i>	COD	2015
KY502943	<i>Gorilla gorilla</i>	COD	2015
KY502944	<i>Gorilla gorilla</i>	COD	2015
KY502946	<i>Gorilla gorilla</i>	COD	2015
KY502947	<i>Gorilla gorilla</i>	COD	2015
KY502948	<i>Gorilla gorilla</i>	COD	2015
KY502951	<i>Gorilla gorilla</i>	COD	2015
KY502952	<i>Gorilla gorilla</i>	COD	2015
KY502953	<i>Gorilla gorilla</i>	COD	2015
KY502972	<i>Gorilla gorilla</i>	COD	2015
KY502973	<i>Gorilla gorilla</i>	COD	2015
KY502975	<i>Gorilla gorilla</i>	COD	2015
KY502977	<i>Gorilla gorilla</i>	COD	2015
KY503014	<i>Gorilla gorilla</i>	COD	2015
KY855428	<i>Marmota himalayana</i>	CHN	2013
KY855429	<i>Marmota himalayana</i>	CHN	2013
KY855430	<i>Marmota himalayana</i>	CHN	2013
KY855431	<i>Marmota himalayana</i>	CHN	2013
KY928739	<i>Marmota himalayana</i>	CHN	2013
KY928740	<i>Marmota himalayana</i>	CHN	2013
KY928741	<i>Marmota himalayana</i>	CHN	2013
KY928742	<i>Marmota himalayana</i>	CHN	2013
KY928743	<i>Marmota himalayana</i>	CHN	2013
KY928744	<i>Marmota himalayana</i>	CHN	2013
KY928745	<i>Marmota himalayana</i>	CHN	2013
KY928746	<i>Marmota himalayana</i>	CHN	2013
KY928747	<i>Marmota himalayana</i>	CHN	2013
KY928748	<i>Marmota himalayana</i>	CHN	2013
KY928749	<i>Marmota himalayana</i>	CHN	2013
KY928750	<i>Marmota himalayana</i>	CHN	2013
KY928751	<i>Marmota himalayana</i>	CHN	2013
KY928752	<i>Marmota himalayana</i>	CHN	2013
KY928753	<i>Marmota himalayana</i>	CHN	2013
KY928754	<i>Marmota himalayana</i>	CHN	2013
KY928755	<i>Marmota himalayana</i>	CHN	2013
KY928756	<i>Marmota himalayana</i>	CHN	2013
KY928757	<i>Marmota himalayana</i>	CHN	2013
KY928758	<i>Marmota himalayana</i>	CHN	2013
KY928759	<i>Marmota himalayana</i>	CHN	2013
KY928760	<i>Marmota himalayana</i>	CHN	2013
KY928761	<i>Marmota himalayana</i>	CHN	2013
KY928762	<i>Marmota himalayana</i>	CHN	2013
KY928763	<i>Marmota himalayana</i>	CHN	2013

[illegible]

[illegible]

[illegible]

[illegible]

KY929002	<i>Marmota himalayana</i>	CHN	2013
KY929003	<i>Marmota himalayana</i>	CHN	2013
KY929005	<i>Marmota himalayana</i>	CHN	2013
KY929006	<i>Marmota himalayana</i>	CHN	2013
KY929007	<i>Marmota himalayana</i>	CHN	2013
KY929008	<i>Marmota himalayana</i>	CHN	2013
KY929009	<i>Marmota himalayana</i>	CHN	2013
KY929010	<i>Marmota himalayana</i>	CHN	2013
KY929011	<i>Marmota himalayana</i>	CHN	2013
KY929012	<i>Marmota himalayana</i>	CHN	2013
LC110352	<i>Mus musculus</i>	JPN	2015
LC337994	<i>Camelus dromedaries</i>	ARE	2013
LC337995	<i>Camelus dromedaries</i>	ARE	2013
LC337996	<i>Camelus dromedaries</i>	ARE	2013
LC337997	<i>Camelus dromedaries</i>	ARE	2013
LC337998	<i>Camelus dromedaries</i>	ARE	2013
LC338000	<i>Camelus dromedaries</i>	ARE	2013
MG010885	<i>Macaca mulatta</i>	TCD	2011
MG010886	<i>Macaca mulatta</i>	TCD	2011
MG010887	<i>Macaca mulatta</i>	TCD	2011
MG010888	<i>Macaca mulatta</i>	TCD	2011
MG010889	<i>Macaca mulatta</i>	TCD	2011
MG010890	<i>Macaca mulatta</i>	TCD	2011
MG010891	<i>Macaca mulatta</i>	TCD	2011
MG010892	<i>Macaca mulatta</i>	TCD	2011
MG010893	<i>Macaca mulatta</i>	TCD	2011
MG010894	<i>Macaca mulatta</i>	TCD	2011
MG010895	<i>Macaca mulatta</i>	TCD	2011
MG010896	<i>Macaca mulatta</i>	TCD	2011
MG010898	<i>Macaca mulatta</i>	TCD	2011
MG190028	<i>Roe deer</i>	SVN	2014
MG600063	<i>Parupeneus cyclostomus</i>	CHN	NA
MG846392	<i>Gallus gallus</i>	BRA	2015
MG846393	<i>Gallus gallus</i>	BRA	2015
MG846395	<i>Gallus gallus</i>	BRA	2015
MG846396	<i>Gallus gallus</i>	BRA	2015
MG846397	<i>Gallus gallus</i>	BRA	2015
MG846398	<i>Gallus gallus</i>	BRA	2015
MG846399	<i>Gallus gallus</i>	BRA	2015
MG846400	<i>Gallus gallus</i>	BRA	2015
MH327933	<i>Gallus gallus</i>	HUN	2011
MH425579	<i>Gallus gallus</i>	HUN	2013
MH425580	<i>Gallus gallus</i>	HUN	2013
MH425581	<i>Gallus gallus</i>	HUN	2013
MH425582	<i>Gallus gallus</i>	HUN	2013
MH425583	<i>Gallus gallus</i>	HUN	2013
MH453876	<i>Australian Shelduck</i>	AUS	2012
MH453877	<i>Australian Shelduck</i>	AUS	2012
MK204399	<i>Anas gracilis</i>	AUS	2017
MK204419	<i>Malacorhynchus membranaceus</i>	AUS	2017
MK305309	<i>Homo sapiens</i>	AGO	2018
MK378829	<i>Sus scrofa</i>	CHN	2004
MK378842	<i>Sus scrofa</i>	CHN	2004
MK378864	<i>Sus scrofa</i>	CHN	2004
MN692670	<i>Macaca fascicularis</i>	THA	2017
MT846991	<i>Pantholops hodgsonii</i>	CHN	2014
MT846992	<i>Pantholops hodgsonii</i>	CHN	2014

MT846993	<i>Pantholops hodgsonii</i>	CHN	2014
MT846994	<i>Pantholops hodgsonii</i>	CHN	2014
MT846995	<i>Pantholops hodgsonii</i>	CHN	2014
MT846996	<i>Pantholops hodgsonii</i>	CHN	2014
MT846997	<i>Pantholops hodgsonii</i>	CHN	2014
MT846998	<i>Pantholops hodgsonii</i>	CHN	2014
MT846999	<i>Pantholops hodgsonii</i>	CHN	2014
NC-029801	<i>Sus scrofa</i>	ITA	2004
NC-034160	<i>Zalophus californianus</i>	AGO	2008
NC-040438	<i>Gallus gallus</i>	HUN	2011
NC-040752	<i>Roe deer</i>	SVN	2014
KC692367	<i>Vulpes vulpes</i>	NLD	2012
KY502844	<i>Gorilla gorilla</i>	COD	2015
AB186897	<i>NA</i>	THA	NA

Table S3. Genetic distances based on complete RDRP coding sequences of all the lineages assessed within the PBV species 1. Values above the diagonal represent the standard error, values below the diagonal represent the p-distance values obtained using MEGAX and 1000 bootstrap replicates. Values shadowed in gray are below the cut-off determined to establish different genotypes (see Figure 5A), thus five genotypes for PBV1 are defined after regrouping and recalculating the distances (see Figure 5A).

Gen	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10	1.11	1.12
1.1		0.0169	0.0169	0.0180	0.0168	0.0170	0.0166	0.0178	0.0228	0.0197	0.0169	0.0166
1.2	0.3265		0.0158	0.0177	0.0162	0.0159	0.0147	0.0188	0.0217	0.0183	0.0159	0.0169
1.3	0.3139	0.3110		0.0161	0.0166	0.0162	0.0169	0.0197	0.0239	0.0188	0.0174	0.0164
1.4	0.3624	0.3678	0.3490		0.0166	0.0171	0.0169	0.0186	0.0213	0.0190	0.0162	0.0162
1.5	0.3713	0.3744	0.3649	0.3896		0.0155	0.0157	0.0166	0.0208	0.0176	0.0158	0.0162
1.6	0.3558	0.3560	0.3545	0.3833	0.3772		0.0155	0.0190	0.0208	0.0175	0.0150	0.0160
1.7	0.3468	0.3485	0.3515	0.3775	0.3729	0.3507		0.0187	0.0224	0.0176	0.0161	0.0161
1.8	0.3505	0.3406	0.3344	0.3714	0.3816	0.3628	0.3627		0.0249	0.0202	0.0154	0.0158
1.9	0.4327	0.4107	0.4290	0.4489	0.4541	0.4262	0.4290	0.4154		0.0211	0.0190	0.0172
1.10	0.4180	0.4145	0.4150	0.4287	0.4128	0.4140	0.4155	0.4086	0.4475		0.0175	0.0162
1.11	0.4976	0.4973	0.5029	0.5040	0.5004	0.4954	0.5046	0.5098	0.5113	0.5139		0.0152
1.12	0.4824	0.4895	0.4897	0.4860	0.4892	0.4881	0.4930	0.4959	0.5119	0.5030	0.5192	

Table S4. Genetic distances based on complete RDRP coding sequences of all the lineages assessed within the PBV species 2. Values above the diagonal represent the standard error, values below the diagonal represent the p-distance values obtained using MEGAX and 1000 bootstrap replicates. Values shadowed in gray are below the cut-off determined to establish different genotypes (see Figure 5B), thus eight genotypes for PBV2 are defined after regrouping and recalculating the distances (see Figure 5B).

Gen	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.10	2.11
2.1		0.0166	0.0182	0.0193	0.0199	0.0205	0.0175	0.0219	0.0219	0.0224	0.0230
2.2	0.3799		0.0197	0.0199	0.0199	0.0206	0.0175	0.0220	0.0233	0.0232	0.0231
2.3	0.4070	0.4496		0.0195	0.0204	0.0213	0.0187	0.0235	0.0250	0.0242	0.0249
2.4	0.4336	0.4353	0.3728		0.0209	0.0226	0.0190	0.0241	0.0251	0.0244	0.0250
2.5	0.5195	0.4958	0.5066	0.4623		0.0196	0.0177	0.0227	0.0235	0.0235	0.0249
2.6	0.4574	0.4512	0.4485	0.4716	0.3590		0.0192	0.0254	0.0246	0.0247	0.0264
2.7	0.4827	0.4967	0.4776	0.4960	0.5113	0.4745		0.0098	0.0208	0.0223	0.0212
2.8	0.4765	0.4945	0.4775	0.5049	0.5132	0.4667	0.4316		0.0274	0.0281	0.0270
2.9	0.4413	0.4719	0.4228	0.4235	0.4486	0.4207	0.5060	0.4930		0.0296	0.0278
2.10	0.4126	0.5092	0.4892	0.5018	0.5292	0.5007	0.5110	0.5211	0.4632		0.0284
2.11	0.4130	0.4357	0.5092	0.4835	0.4180	0.5060	0.5130	0.5246	0.4140	0.4000	

Table S5. Genetic distances based on complete RDRP coding sequences of all the lineages assessed within the PBV species 3. Values above the diagonal represent the standard error, values below the diagonal represent the p-distance values obtained using MEGAX and 1000 bootstrap replicates. Values shadowed in gray are below the cut-off determined to establish different genotypes (see Figure 5C), thus three genotypes for PBV3 are defined after regrouping and recalculating the distances.

Gen	3.1	3.2	3.3	3.4	3.5	3.6
3.1		0.0215	0.0253	0.0258	0.0258	0.0240
3.2	0.3103		0.0248	0.0249	0.0245	0.0232
3.3	0.4216	0.4290		0.0231	0.0253	0.0257
3.4	0.3981	0.4027	0.2557		0.0242	0.0261
3.5	0.4246	0.4327	0.3063	0.2500		0.0262
3.6	0.4249	0.4133	0.4537	0.4260	0.4569	