

	10	20	30	40	50	60	70	80	90	100	110	120	
Consensus	MALSRLPLQISSDKFYEVII	RLPSDIDQV	PGLSLNF	VEHLSTG	WEPETGI	NNMEHV	ILPMV	TLAEKIK	NIIFIQR	WQFNQ	DETDF	FFQL	EEGSEYIHLHCCIAQGNVRSFVLGRYMSQIK
NC_001701 GPV virulent B	.....	S.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EU583392 GPV strain VG32/1	.....	.....	H.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KU684472 GPV strain GPV GER	.....	.....	.....	.....	.....	.....	R.....	.....	.....	.....	.....	.....	.....
BDU22967 BDPV strain FM	..F.....	.....	.....	.....	.....	.....	D.....	.....	.....	.....	.....	.....	.....
KR075690 DPV strain FJM3	.....	.....	.....	.....	.....	.....	D.....	.....	.....	.....	.....	.....	.....
KR091959 GPV strain WX	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MT646164 GPV isolate AHAU30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.....	.....	.....
MK736656 GPV strain HuN18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.....	.....	.....
KX015715 GPV strain YBLJ	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.....	.....	.....
JQ409356 GPV strain H1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EF515837 GPV strain DY	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MN549533 GPV isolate GDQY1802	.....	P.....	.....	.....	.....	.....	.....	.....	S.....	.....	.....	.....	.....
MN549532 GPV isolate GDSG1901	.....	P.....	.....	.....	H.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386078 GPV strain Konya/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386079 GPV strain Yozgat/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386077 GPV strain Corum/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	130	140	150	160	170	180	190	200	210	220	230	240	
Consensus	DSIIRDVYEGKQIKIPDW	FAITKTR	KGQNK	TVTAAY	ILHYLIP	KKQPEL	QWAF	TNNMPL	FTAALCL	QKRQEL	LDAFQ	ESDLA	APLPDPQASTVAPLISNRAAKNIYSNLVDWLIEMGITS
NC_001701 GPV virulent B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EU583392 GPV strain VG32/1	..M.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.....	.....
KU684472 GPV strain GPV GER	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.....	.....	V.....	.....
BDU22967 BDPV strain FM	...L.....	V.....	S.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KR075690 DPV strain FJM3	...L.....	V.....	S.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KR091959 GPV strain WX	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MT646164 GPV isolate AHAU30	.....	R.....	S.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MK736656 GPV strain HuN18	.....	R.....	S.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KX015715 GPV strain YBLJ	.....	.....	.....	S.....	.....	T.....	.....	.....	.....	.....	.....	.....	.....
JQ409356 GPV strain H1	.....	.....	.....	S.....	.....	T.....	.....	.....	.....	.....	.....	.....	.....
EF515837 GPV strain DY	.....	.....	.....	S.....	.....	T.....	.....	.....	.....	.....	.....	.....	.....
MN549533 GPV isolate GDQY1802	.....	R.....	S.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MN549532 GPV isolate GDSG1901	.....	R.....	G.....	S.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386078 GPV strain Konya/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386079 GPV strain Yozgat/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386077 GPV strain Corum/19	.....	.....	.....	G.....	N.....	.....	.....	.....	.....	.....	.....	.....	.....
	370	380	390	400	410	420	430	440	450	460	470	480	
Consensus	WTNENFPFNDVCKMLI	WNEEGKMTNK	WVESAK	AILGGS	AVRV	DQKCKG	SVCI	EPTPV	LIITS	NTDM	CMITV	DGNIST	MEHRIPL
NC_001701 GPV virulent B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EU583392 GPV strain VG32/1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KU684472 GPV strain GPV GER	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
BDU22967 BDPV strain FM	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KR075690 DPV strain FJM3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KR091959 GPV strain WX	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MT646164 GPV isolate AHAU30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MK736656 GPV strain HuN18	.....	.....	.....	E.....	.....	.....	.....	.....	.....	.....	.....	I.....	.....
KX015715 GPV strain YBLJ	.....	.....	.....	.....	.....	K.....	.....	.....	.....	.....	.....	I.....	.....
JQ409356 GPV strain H1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EF515837 GPV strain DY	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MN549533 GPV isolate GDQY1802	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MN549532 GPV isolate GDSG1901	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386078 GPV strain Konya/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386079 GPV strain Yozgat/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386077 GPV strain Corum/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	490	500	510	520	530	540	550	560	570	580	590	600	
Consensus	PVWSEFKV	RTNEQ	TNLPEP	VPERA	NEEPP	KIWA	PPTR	EELE	LLRAS	PELF	SSVAP	IPVTP	QNSPEPKRSRNIN
NC_001701 GPV virulent B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EU583392 GPV strain VG32/1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KU684472 GPV strain GPV GER	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
BDU22967 BDPV strain FM	.....	P.....	.....	K.T.....	S.....	.....	.....	.....	.....	.....	.....	.....	.....
KR075690 DPV strain FJM3	.....	P.....	.....	K.T.....	S.....	.....	.....	.....	.....	.....	.....	.....	.....
KR091959 GPV strain WX	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MT646164 GPV isolate AHAU30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MK736656 GPV strain HuN18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KX015715 GPV strain YBLJ	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
JQ409356 GPV strain H1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EF515837 GPV strain DY	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MN549533 GPV isolate GDQY1802	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MN549532 GPV isolate GDSG1901	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386078 GPV strain Konya/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386079 GPV strain Yozgat/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386077 GPV strain Corum/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	610	620											
Consensus	CAICKEL	KNELAE	IEHVF	ELDDA	ENEQX								
NC_001701 GPV virulent B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EU583392 GPV strain VG32/1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KU684472 GPV strain GPV GER	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
BDU22967 BDPV strain FM	..F.N...	DDMN...	.....	AI..M.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KR075690 DPV strain FJM3	..F.N...	RDDMN...	.....	AI..M.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KR091959 GPV strain WX	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MT646164 GPV isolate AHAU30	...T...D.....	.....	A.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MK736656 GPV strain HuN18	...T...D.....	.....	A.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KX015715 GPV strain YBLJ	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
JQ409356 GPV strain H1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EF515837 GPV strain DY	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MN549533 GPV isolate GDQY1802	...T...D.....	.....	A.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MN549532 GPV isolate GDSG1901	...T...D.....	.....	A.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386078 GPV strain Konya/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386079 GPV strain Yozgat/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MW386077 GPV strain Corum/19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Supplementary Figure 4: The multiple comparison analysis of the Minor Asian strains with some of the GPV and MDPV strains based on 627 aa rep protein sequence (BDPV, Barbarie duck parvovirus; DPV, duck parvovirus). Residues were highlighted by comparing them with the consensus. Non-highlighted residues were represented as dots.