

Figure S5A

VP

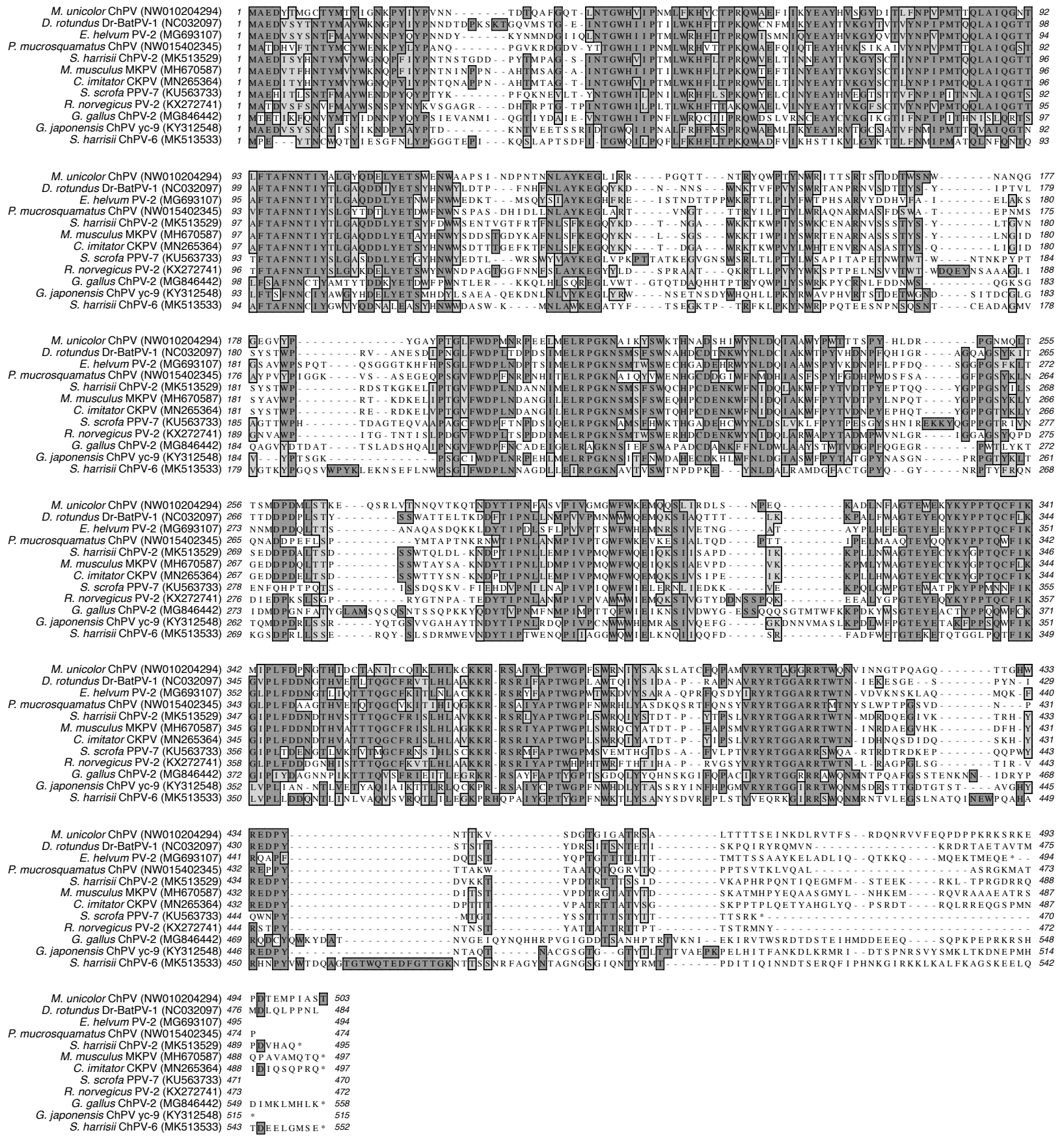


Figure S5A (cont.)

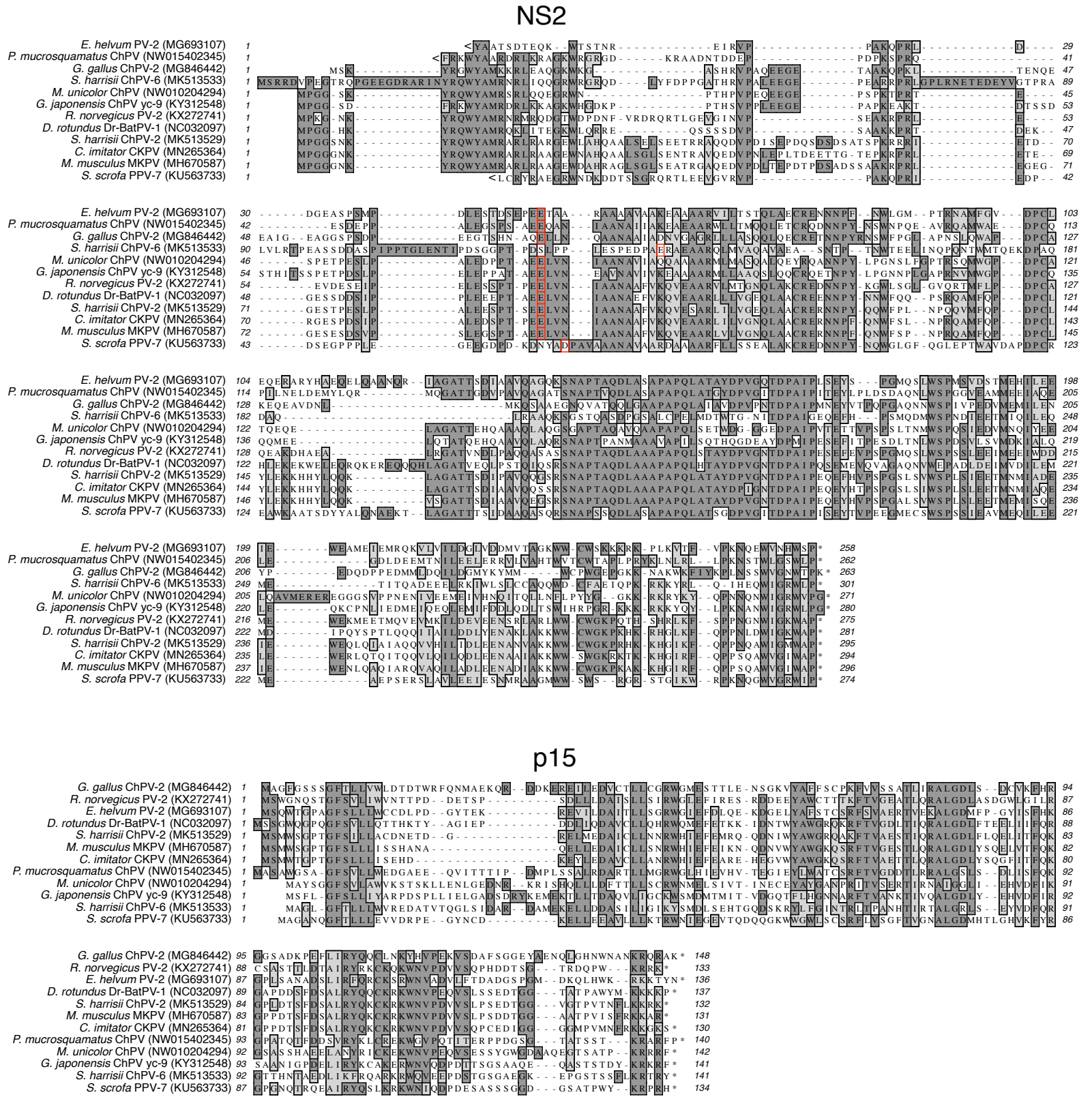


Figure S5A (cont.)

NS1

Table of amino acid sequences for NS1 protein from various species. The table is organized into sections for different species: M. unicolor, R. norvegicus, D. rotundus, C. imitator, M. musculus, S. harrisi, E. helvum, P. microsquamatus, S. scrofa, G. gallus, S. harrisi, and G. japonensis. Each section contains multiple lines of sequence data with corresponding accession numbers and residue positions (e.g., 1-84, 85-178, 185-269, etc.).

Figure S5B

VP

<i>Mus musculus</i> MKPV - MH670587 Splice score: 0.99 TCTCCAAGTCCGAAGGTAATTAAAAACCTTTTTTATATCTTCTTACAGA.....ATGGTTCACCTTATCTATCTTATTTACAGAAACACTATGGCTGAGATGTCA > 2289 bp 80% Pyr < M A E D V
<i>Cebus imitator</i> CKPV - KV391748 Splice score: 0.94 TCACCAACACCTGAAGTACTTATCTTTTTATTTCTTTTATGCATGCAGAT.....ATGGCTTGCTTATCTCTCTTATTTACAGCAACAATATGGCTGAGATATCA > 2288 bp 87% Pyr < M A E D I
<i>Sarcophilus harrisii</i> ChPV 2 - MK513529 Splice score: 0.99 TCGCCTACATCAGAAGTAATTATATTTACTCTTACTTTTCTTTCTAGATG.....ATGGTATTCTTATCTTTTCTTATTTACAGACTCACTATGGCTGAGATATAT > 2290 bp 80% Pyr < M A E D I
<i>Desmodus rotundus</i> parvovirus strain DRA25 - NC_032097 Splice score: 1.00 GAACCCACAGCAGAAGTAAGCTAACATTTGTATTATTTTTTCATAGATGTC.....ATGGTATATGTATCTCTCCTACCTACAGACAAAATATGGCTGAGATGTCA > 2330 bp 80% Pyr < M A E D V
<i>Ratus norvegicus</i> parvovirus 2 isolate 9 - KX272741 Splice score: 0.89 TCTCCTACGCCTGAAGTATTTTATCTTTTTGTTTTTCTCTTTTTAGAAAT.....GCTAATAAATGTAATCTTTGATTTACAGAAATAACATGGCAACTGATGTTT > 2310 bp 67% Pyr < M A T D V
<i>Eidolon helvum</i> isolate BtPV/CMR/2014 - MG693107 Splice score: 0.89 GATTCTGAACCTGAAGTATTTTATTTTATTTTATAGATGTCTCAGTGGAC.....CTGGTTATCTTACTTGTCTTATTTACAGACCAATATGGCTGAGATGTTT > 2354 bp 80% Pyr < M A E D V
<i>Protobothrops mucrosquamatus</i> ChPV NW_015402345 Splice score: 0.90 AGTCCATCAGCAGAAGTAATGAACCTTTTCTTTTAGCATTTCAGGCTAT.....ATGGAATGTATTGTCTTACTTGCAGAAATAAATATGGCTACTGATCATG > 2285 bp 80% Pyr < M A T D H
<i>Sus scrofa</i> PV7 isolate 42 - KU563733 Splice score: 0.98 AAGACAACCTACGCAGGTGAGTGTGTAAGTCTTT.....CACTGGTGTGCTTATCTGTCTTATCTAGAGCATTGCTTCGGTGATCAATAAGCGCCTGAGCTCAATCATGGCAGAACACATCACC > 2343 bp 73% Pyr < M A E H I T
<i>Mesitornis unicolor</i> ChPV - NW_010204294 Splice score: 0.99 CCTCCTACAGCTGAGGTAAGCAATGGCGTATTCTGGCGGTTTTTC.....GCATGTACCTCTTAAATCTGATTGGCAGCAATACCTCAGCTACATCTACCACGCATATGGCTGAGATTATACTA > 2307 bp 60% Pyr < M A E D Y T
<i>Grus japonicus</i> PV isolate yc-9 - KY312548 Splice score: 0.59 CCAGCAACAGCTGAAGGTACAACATGCTTTTCTGGGCTTTTCA.....ATTACCTATGATGTTCCCTTTAAACAGGATTGGGAAGAATACCTGAATTTCTGTATCATATGATGGCTGAGACGTCTCATA > 2286 bp 60% Pyr < M A E D V S Y
<i>Gallus gallus</i> PV strain RS/BR/2S - MG846442 Splice score: 1.00 TCAGATCCTGAAGAAGGTACCAGTCATAATGCACAAGGTATGTCATTATTTTCTTATATTTTCAGAG.....TTTATCTGCATACGAAGATCTACATTCAGATTGAGAAATGACTGAAACAATAAAAT > 2398 bp 53% Pyr < M T E T I K
<i>Sarcophilus harrisii</i> ChPV 6 - MK513533 Splice score: 0.99 CCTGAGGACCCAGCGGTACGTATGGCAGGTCTAGGC.....CATAACACTATCTATTTCTTACTCCACAGGACTGGAAGAATTACTTGTCTTACTTGTATCACATTTATCACGATGCCGATGACTATACACTAATTGTT > 2186 bp 80% Pyr < M P E Y T N C

Figure S5B (cont.)

NS2

Mus musculus MKPV - MH670587
Splice score: 0.99 0.58
TCTCCAAGTCCGAAGGTAATTAACCTTTTTTATATCTTCTTACAGA....ATATGCATGATACACCATTTATTTGCAGAGCTAGTGAATATAGCTGCCAAT
S P T A E > 1622 bp 67% Pyr <E L V N I A A N

Cebus imitator CKPV - KV391748
Splice score: 0.94 0.95
TCACCAACACCTGAAGGTACTTATCTTTTATTTCTTTTATGCATGCAGAT....ATATGCACGAAACACCTTTCTTTTGCAGAACTAGTGAACATAGCTGCCAAT
S P T P E > 1629 bp 73% Pyr <E L V N I A A N

Sarcophilus harrisii ChPV 2 - MK513529
Splice score: 0.99 0.96
TCGCCTACATCAGAAGTAATTAATTTACTCTTACTTTTCTTTCTAGATG....ATATGCATGATACTCTTTTGTCTTCTAGAGCTAGTGAACATAGCTGCAAAT
S P T S E > 1623 bp 80% Pyr <E L V N I A A N

Desmodus rotundus parvovirus strain DRA25 - NC_032097
Splice score: 1.00 0.51
GAACCCACAGCAGAAGTAAGCTAACATTTGTATTATTTTTCATAGATGTC....ACATGCATAACACCACTTTTCACTTACAGAGTTAGTGAATATAGCTGCGAAT
E P T A E > 1636 bp 73% Pyr <E L V N I A A N

Ratus norvegicus parvovirus 2 isolate 9 - KX272741
Splice score: 0.89 0.80
TCTCCTACGCCTGAAGGTATTTATCTTTTTGTTTTCTCTCTTTTAGAAT....ATGATTGCACTGGTCTCTATTCTTGTAGAGCTAGTGAACATAGCTGCGAAT
S P T P E > 1612 bp 80% Pyr <E L V N I A A N

Eidolon helvum isolate BtPV/CMR/2014 - MG693107
Splice score: 0.89 0.93
GATTCTGAACCTGAAGGTATTTATTTTATTTTATAGATGTCTCAGTGGAC....ACACTTCCTCTGGTATTTTGTATTTATAGAAACAGCTGCACGAGCTGCAGCT
D S E P E > 1633 bp 67% Pyr <E T A A R A A A

Protothrips mucrosquamatus ChPV NW_015402345
Splice score: 0.90 NS
AGTCCATCAGCAGAAGTAATGAAACCTTTTCTTTTATGATTTTCAGGCTAT....ACATGATGTACCCTGAATTTACACCTAGAACAAGCGAACATAGCTGCGAAT
S P S A E > 1621 bp 60% Pyr <E Q A N I A A N

Sus scrofa PPV7 isolate 42 - KU563733
Splice score: 0.98 0.93
AAAGACAACCTACGCAGGTGAGTGTGTAAGTCTTTTGGCTTTTCGCTTTAGAT....ACTGTACTGACGGTGTGTTTCGTTCCAGATCCAGCGGTAGCTGCTGCCAAT
K D N Y A > 1663 bp 60% Pyr <D P A V A A A N

Mesitornis unicolor ChPV - NW_010204294
Splice score: 0.99 NS
CCTCCTACAGCTGAGGTAAGCAATGGCGTATTCTGGCGGTTTTTTCGGTGC....AATGCGCAAACGAACATTATACTCCTAGAGCTCGTGAACATAGCTGCAAAT
P P T A E > 1637 bp 53% Pyr <E L V N I A A N

Grus japonicus PV isolate yc-9 - KY312548
Splice score: 0.59 0.50
CCAGCAACAGCTGAAGGTACAACATGTCTTTTCTGGGCTTTTTCATTATTA....CTTCAAAGATGCTGTATATGTTCCAGAAATTAGTGAACGAAGCTGTCAAT
P A T A E > 1640 bp 60% Pyr <E L V N E A V N

Gallus gallus PV strain RS/BR/2S - MG846442
Splice score: 1.00 0.94
TCAGATCCTGAAGAAGGTACCAGTCATAATGCACAAGGTATGTCATTATTT....ATATGTCTGATGGTATTTTTCATCCTAGAGTTACTGAATCAGGCTGCGAAT
S D P E E > 1685 bp 67% Pyr <E L L N Q A A N

Sarcophilus harrisii ChPV 6 - MK513533
Splice score: 0.99 0.49
CCTGAGGACCCAGCGGTACGTATGGCAGGTCTAGGCTTTACCCTATTGCT....AACCGAGCTGTGAGTGCCTTGCAGAGAGAGCAGAGGCAGCCAGACAA
P E D P A > 1666 bp 53% Pyr <E R A E A A R Q

Figure S5B (cont.)

NS1 or p15

Mus musculus MKPV - MH670587
Splice score: 0.99 0.98
CTAGAAGGAGAAGGAGGTGAGTCAGAATCGGA.....ATTAAAAACCTTTTTTATATCTTCTTACAGATGCTCTATGTGGTCA
> 88/86 bp 87% Pyr <
p15> M S M W S

Cebus imitator CKPV - KV391748
Splice score: 1.00 0.55
CTAGAAACCGAAAGAGGTGAGTCGCCAGACTC.....ACTTATCTTTTTATTTCTTTTATGCATGCAGATGCTCTATGTGGACG
> 84 bp 73% Pyr <
p15> (+2) <M S M W T

Sarcophilus harrisii ChPV 2 - MK513529
Splice score: 0.99 0.99
CGTATAGAGACAGACGGTGTGAGTCAACTCCTGA.....TAATTATATTTACTCTTACTTTTCTTTCTAGATGCTCAATGTGGTCT
> 86 bp 93% Pyr <
p15> M S M W S

Desmodus rotundus parvovirus strain DRA25 - NC_032097
Splice score: 0.99 1.00
CGAACAGACGAAAAGGGTGAGTCTTCAGACGA.....GGTAAGCTAACATTTGTATTATTTTTTCATAGATGCTCTAGCGGCTGG
> 84 bp 80% Pyr <
p15> M S S G W

Ratus norvegicus parvovirus 2 isolate 9 - KX272741
Splice score: 0.84 0.99
GGGACACAGTTTCCTGTGAGGCGTCAGTTGCG.....ATTTATCTTTTTGTTTTTCTCTCTTTTAGAATGCTCTGGGAAAT
> 262 bp 93% Pyr <
p15> (+71) <M S W G N

Eidolon helvum isolate BtPV/CMR/2014 - MG693107
Splice score: 0.96 0.99
CTGCTAAACAACCAAGTTAGACGACGGGAG.....GAACCTGAAGGTATTTATTTTATTTTATAGATGCTCTCAGTGGACG
> 86 bp 80% Pyr <
p15> M S Q W T

Protobothrops mucrosquamatus ChPV NW_015402345
Splice score: 0.95 0.97
<CTTTCGAAATGTACGCAGCGGTGAT.....AATGAAACCTTTTCTTTTAGCATTTCAGGCTATGGCGTCTGCATGG
> 188 bp 80% Pyr <
p15> (+10) <M A S A W

Sus scrofa PV7 isolate 42 - KU563733
Splice score: 0.67 1.00
GCGGACACTCGAGGAGGTAGGGGTCCGGTCC.....GAGTGTGTAAGTCTTTTGGCTTTTCGCTTTAGATGGCTGGCGCGAATG
> 145 bp 80% Pyr <
p15> M A G A N

Mesitornis unicolor ChPV - NW_010204294
Splice score: 0.95 0.46
AGTCTGCTTCTATCAGGTAATGCCT.....CCCGCTCTCGAAGATCCTCTACAGCTGAGGGTAAGCAATGGCGTATTCTGGCG
> 187 bp 67% Pyr <
p15> M A Y S G

Grus japonicus PV isolate yc-9 - KY312548
Splice score: 0.99 0.96
TAGATTAAAAAAGCTGTAAGTGGCATGGAGATAAACCTCCAACCTCATTCTGTTCTCCATTAGAAAGAGCGA.....CAACAGCTGAAGGTACAACATGCTCTTTTCTGG
> 48 bp 80% Pyr <
p15> M S F L

Gallus gallus PV strain RS/BR/2S - MG846442
Splice score: 0.99 0.96
CTAGGGTATAAGTATGAGTAAGTACA.....ATGCACAAGGTATGTCATTATTTTCTTATATTTTTCAGAGTATCTATGGCGGGCTTTGGAT
> 231 bp 80% Pyr <
p15> M A G F G

Sarcophilus harrisii ChPV 6 - MK513533
Splice score: 0.96 0.40
CCTGAGGACCCAGCGGTACGAGACAGCC.....GGGACCCCAAGAGCGCTCGTCCCTTAGACCCAGAGGCCT.....CCCAGCGGGTACGTAATGGCAGGTCTAGGCT
> 253 bp 53% Pyr <
p15> M A G L G