### Supplementary Tables

**Table S1.** List of sequences used for analysis and its NCBI accession numbers.

| Journal number. | Year | Species                  | Country     | Subtype | GenBank Acc. No. |
|-----------------|------|--------------------------|-------------|---------|------------------|
| NOR/060214      | 2013 | *Oncorhynchus mykiss*    | Norway      | PRV-3   | MG983780         |
| DK/17-18918-1   | 2017 | *Oncorhynchus mykiss*    | Denmark     | PRV-3   | MG983785         |
| DK/17-18918-6   | 2017 | *Oncorhynchus mykiss*    | Denmark     | PRV-3   | MG983786         |
| DK/17-18918-13  | 2017 | *Oncorhynchus mykiss*    | Denmark     | PRV-3   | MG983782         |
| G1491           | 2017 | *Oncorhynchus mykiss*    | Scotland    | PRV-3   | MG983781         |
| 773             | 2017 | *Oncorhynchus mykiss*    | Germany     | PRV-3   | MG983787         |
| IT/17-211.3     | 2017 | *Salmo trutta fario*     | Italy       | PRV-3   | MG983783         |
| IT/17-267       | 2017 | *Salmo trutta fario*     | Italy       | PRV-3   | MG983784         |
| C10/P4.1        | 2014 | *Oncorhynchus mykiss*    | Chile       | PRV-3   | KX844951         |
| C10/P1.2        | 2014 | *Oncorhynchus mykiss*    | Chile       | PRV-3   | KX844964         |
| C10/P1.1        | 2014 | *Oncorhynchus mykiss*    | Chile       | PRV-3   | KX844965         |
| C10/P4.2        | 2014 | *Oncorhynchus mykiss*    | Chile       | PRV-3   | KX844959         |
| C10/P3.2        | 2014 | *Oncorhynchus mykiss*    | Chile       | PRV-3   | KX844960         |
| C10/P3.1        | 2014 | *Oncorhynchus mykiss*    | Chile       | PRV-3   | KX844961         |
| C10/P2.2        | 2014 | *Oncorhynchus mykiss*    | Chile       | PRV-3   | KX844962         |
| VT12220213-CGA-2013-3 | 2013 | *Oncorhynchus kisutch* | Chile | PRV-3 | KU131595 |
| VT12220213-CGA-2013-5 | 2013 | *Oncorhynchus kisutch* | Chile | PRV-3 | KU131596 |
| BCJ31915_13     | 2013 | *Salmo salar*            | British Columbia | PRV-1 | KT429746 |
| 050607          | 2007 | *Salmo salar*            | Norway      | PRV-1   | KR337479         |
| 2015-CGA-2015-A | 2015 | *Oncorhynchus kisutch*  | Chile       | PRV-1   | KU131604         |
| NOR2012-V3621   | 2012 | *Salmo salar*            | Norway      | PRV-1   | KY429949         |
| Virus   | Year | Species                  | Country   | Type | Accession        |
|---------|------|--------------------------|-----------|------|------------------|
| PRV-2   | 2012 | Oncorhynchus kisutch    | Japan     | PRV  | LC145616         |
| LMELV   | 2015 | Micropterus salmoides    | USA       | PRV  | KU974955         |
|         | 2008 | Gallus gallus            | Canada    | ARV  | EU707935         |
| T3D     | 2011 | Pteropus poliocephalus   | Australia | NBV  | JF342673         |
| 2511    | 2002 | Homo sapiens             | USA       | MRV  | HM159613         |
|         | 2010 | Pteropus scapulatus      | Australia | BrOV | NC_014238        |
|         | 1993 | Papio cynocephalus       | USA       | BRV  | NC_015878        |
| 2511    | 2015 | Eucampsipoda africana    | South Africa | MAHLV | NC_029912 |
|         | 1979 | Notemigonus crysoleucas  | Canada    | GSRV | AF403399         |
|         | 2000 | Ctenopharyngodon idellus | China     | GCRV | AH009795         |
| CH1197/96 | 2016 | Testudo graeca           | Switzerland | RRV  | KT696549 |

**Table S2.** Number of reads targeting each PRV-3 segment from the Illumina HiSeq4000 run.

| Segment | L1   | L2   | L3   | M1   | M2   | M3   | S1   | S2   | S3   | S4   |
|---------|------|------|------|------|------|------|------|------|------|------|
| # of reads | 24936 | 20588 | 21162 | 10256 | 10733 | 10461 | 4378 | 5961 | 5213 | 4034 |

**Figure S1.** The secondary structure prediction and structural comparison of the μ1 protein.
Figure S2. Phylogenetic trees constructed with genome segments of PRV-3.
Table S3. Nucleotide and amino acid variation between the partial S1 (nt 876) sequences used in the phylogenetic analysis.

| Country | Region | Accession | Date | Country | Region | Accession | Date | Country | Region | Accession | Date |
|---------|--------|-----------|------|---------|--------|-----------|------|---------|--------|-----------|------|
| LC145616_Piscine orthoreovirus 2_Japan | | KX844951 | 2014 | C10/P4.1 Chile | | | | NOR/060214 Norway 2013 | | KX844951 | 2014 |
| | | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Code | Description | Accession | CT10 | CT11 | CT12 | CT13 | CT14 | CT15 | CT16 | CT17 | CT18 | CT19 | CT20 | CT21 | CT22 | CT23 |
|------|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 17-19266-27 | Italy_2017 | 97 | 6 | 6 | 1 | 1 | 0 | 1 | 1 | 1 | 5 | 5 | 6 | 6 | 5 | 4 | 4 | 3 | 171 | 179 | 177 | 178 |
| 17-19266-35 | Italy_2017 | 97 | 6 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 4 | 4 | 5 | 5 | 4 | 3 | 3 | 2 | 170 | 178 | 176 | 177 |
| DK/17-18918-1 | Denmark 2017 | 97 | 6 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 4 | 4 | 5 | 5 | 4 | 3 | 3 | 2 | 170 | 178 | 176 | 177 |
| DK/17-18918-6 | Denmark 2017 | 97 | 6 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 4 | 4 | 5 | 5 | 4 | 3 | 3 | 2 | 170 | 178 | 176 | 177 |
| KX844964 | C10/P1.2_Chile_2014 | 97 | 8 | 6 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 3 | 3 | 2 | 170 | 178 | 176 | 177 |
| KX844965 | C10/P1.1_Chile_2014 | 98 | 8 | 6 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 3 | 3 | 2 | 169 | 177 | 175 | 176 |
| KU131595 | VT12202013-CGA-2013-3_Chile_2013 | 98 | 7 | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 5 | 4 | 4 | 3 | 167 | 175 | 173 | 174 |
| KX844959 | C10/P4.2_Chile_2014 | 99 | 7 | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 5 | 4 | 4 | 3 | 171 | 179 | 177 | 178 |
| KU131596 | VT12202013-CGA-2013-5_Chile_2013 | 99 | 7 | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 169 | 177 | 175 | 176 |
| KX844960 | C10/P3.2_Chile_2014 | 99 | 7 | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 168 | 176 | 174 | 175 |
| KX844961 | C10/P3.1_Chile_2014 | 98 | 6 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 167 | 175 | 175 | 174 |
| KX844962 | C10/P2.2_Chile_2014 | 98 | 6 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 168 | 176 | 174 | 175 |
|                | 92 | 63 | 65 | 63 | 62 | 62 | 62 | 62 | 63 | 62 | 61 | 61 | 61 | 36 | 36 | 35 |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| KT429746      | 97 | 64 | 68 | 66 | 66 | 65 | 65 | 65 | 65 | 66 | 65 | 65 | 64 | 64 | 64 | 13 |
| BCJ31915_13_Canada_2013? | 97 | 64 | 68 | 66 | 66 | 65 | 65 | 65 | 65 | 66 | 65 | 65 | 64 | 64 | 64 | 13 |
|                | 96 | 63 | 67 | 65 | 65 | 64 | 64 | 64 | 64 | 65 | 64 | 63 | 63 | 63 | 12 | 1  |
| KR337479      | 96 | 63 | 67 | 65 | 65 | 64 | 64 | 64 | 64 | 65 | 64 | 63 | 63 | 63 | 12 | 1  |
| 050607_Norway_2007 | 96 | 63 | 67 | 65 | 65 | 64 | 64 | 64 | 64 | 65 | 64 | 63 | 63 | 63 | 12 | 1  |
|                | 96 | 63 | 67 | 65 | 65 | 64 | 64 | 64 | 64 | 65 | 64 | 63 | 63 | 63 | 12 | 1  |
| KU131604 2015-CGA-2015-A_Chile_2015 | 96 | 63 | 67 | 65 | 65 | 64 | 64 | 64 | 64 | 65 | 64 | 63 | 63 | 63 | 12 | 1  |
|                | 96 | 63 | 67 | 65 | 65 | 64 | 64 | 64 | 64 | 65 | 64 | 63 | 63 | 63 | 12 | 1  |
| KY429949      | 96 | 63 | 67 | 65 | 65 | 64 | 64 | 64 | 64 | 65 | 64 | 63 | 63 | 63 | 12 | 1  |
| NOR2012-V3621_Norway_2012 | 96 | 63 | 67 | 65 | 65 | 64 | 64 | 64 | 64 | 65 | 64 | 63 | 63 | 63 | 12 | 1  |

Values above the diagonal are nucleotide differences and values below represents amino acid differences.