

APPENDIX A.

Overview of ISA virus sequences used in figure 5.

| ISA virus | Year | HPR | Segment 6 |
|-------------------------|-------------|-------------|-----------------|
| Rogaland | | | |
| | | | DQ108609 |
| R111/05 | 2005 | 18 | - |
| R171/07 | 2007 | 7i | - |
| R170/09 | 2009 | 32 | - |
| Hordaland | | | |
| H1/87 | 1987 | 1 | AF364893 |
| H2/89 | 1989 | 2 | AF220607 |
| H6/91 | 1991 | 2 | AF364894 |
| H7/92 | 1992 | 1 | AF364898 |
| H8/93 | 1993 | 1 | AF309075 |
| H17/96 | 1996 | 7a | AF364891 |
| H36/98 | 1998 | 15 | AF302799 |
| H40/98 | 1998 | 7b | AF364877 |
| H45/99 | 1998 | 15 | AF364870 |
| H51/00 | 2000 | 7b | AF364882 |
| H56/00 | 2000 | 15 | AF364880 |
| H88/04 | 2004 | 1 | AY973178 |
| H93/04 | 2004 | 10 | AY97379 |
| H96/04 | 2004 | 7 | AY973180 |
| H97/04 | 2004 | 0-7b | DQ108604 |
| H99/04 | 2004 | 7b | AY973181 |
| H101/04 | 2004 | 4b | DQ108602 |
| H112A/04 | 2004 | 8 | DQ108603 |
| H138/08 | 2008 | 0 | JN711063 |
| H172/10 | 2010 | 0 | JN711064 |
| Sogn og Fjordane | | | |
| SF14/95 | 1995 | 5 | AF364873 |
| SF18/96 | 1996 | 2 | AF364869 |
| SF41/98 | 1998 | 15 | AF364871 |
| SF48/99 | 1999 | 8 | AF364878 |
| SF47/99 | 1999 | 9 | AF364888 |
| SF54/00 | 2000 | 11a | AF364884 |
| SF57/00 | 2000 | 11a | AF364890 |
| SF63/01 | 2001 | 11b | AY127879 |
| SF70/02 | 2002 | 11a | AY127880 |
| SF71/02 | 2002 | 11a | AY127881 |
| SF83/04 | 2004 | 0 | AY973190 |
| SF94/04 | 2004 | 14 | DQ108611 |
| SF109/05 | 2005 | 0 | DQ108610 |
| SF175/11 | 2011 | 0 | - |

Møre og Romsdal

| | | | |
|------------------|-------------|----------|-----------------|
| MR46/99 | 1999 | 8 | AF364896 |
| MR52/00 | 2000 | 10 | AF364892 |
| MR60/01 | 2001 | 6 | AY127876 |
| MR61/01 | 2001 | 11a | AY127877 |
| MR62/01 | 2001 | 11a | AY127878 |
| MR102/05 | 2005 | 0 | DQ108605 |
| MR103/05 | 2005 | 17 | DQ108606 |
| MR104/05 | 2005 | 0 | DQ108607 |
| MR105/05 | 2005 | 17 | DQ108608 |
| MR118/06 | 2006 | 30 | - |
| MR139/08 | 2008 | 35 | JN711065 |
| AR13/08-1 | 2008 | 0 | FN687354 |
| AR13/08-2 | 2008 | 0 | FN687355 |
| ISA3/08-1 | 2008 | | FN687308 |

Sør Trøndelag

| | | | |
|----------|------|----|----------|
| ST21/96 | 1996 | 14 | AF364886 |
| ST26/97 | 1997 | 14 | AF364879 |
| ST25/97 | 1997 | 6 | AF364885 |
| ST27/97 | 1997 | 6 | AF364897 |
| ST28/97 | 1997 | 6 | AF364875 |
| ST30/97 | 1997 | 14 | AY127875 |
| ST44/99 | 1999 | 14 | AF302803 |
| ST77/03 | 2003 | 7b | AY973191 |
| ST82/04 | 2004 | 8 | AY973192 |
| ST110/05 | 2005 | 3 | DQ108598 |
| ST143/08 | 2008 | 35 | - |
| ISA1/08 | 2008 | | FN687305 |

Nord Trøndelag

| | | | |
|------------------|-------------|----------|-----------------|
| NT38/99 | 1998 | 2 | AF364874 |
| NT78/03 | 2003 | 7b | AY973183 |
| NT8103 | 2003 | 7b | AY973184 |
| NT84/04 | 2004 | 8 | AY973185 |
| NT87/04 | 2004 | 7b | AY973186 |
| NT92A/04 | 2004 | 7b | AY973187 |
| NT92B/04 | 2004 | 7b | AY973188 |
| NT95/04 | 2004 | 5 | AY973189 |
| NT115/05 | 2005 | 3 | - |
| NT134/08 | 2008 | 34 | JN711069 |
| NT141/08 | 2008 | 2 | JN711070 |
| AR26/08-1 | 2008 | 0 | FN687356 |
| AR26/08-2 | 2008 | 0 | FN687357 |
| ISA8/08-1 | 2008 | | FN687318 |
| NT155/09 | 2009 | 35 | JN711071 |
| NT156/09 | 2009 | 35 | JN711072 |

Nordland

| | | | |
|-----------|------|----|-------------|
| N5/89 | 1989 | 12 | AY127882 |
| N9/93 | 1993 | 3 | AF364895 |
| N29/97 | 1997 | 7b | AF364872 |
| Vir25 | 1997 | 35 | DQ785256 |
| N32/98 | 1998 | 7b | AF364883 |
| N49/99 | 1999 | 7b | AF364876 |
| N75/03 | 2003 | 4 | AY971661 |
| N89/04 | 2004 | 14 | AY971662 |
| N127/07 | 2007 | 33 | JN711066/67 |
| ISA1/07-1 | 2007 | | FN687284 |

Troms

| | | | |
|---------------|-------------|----------|-----------------|
| T10/93 | 1993 | 4a | AF302801 |
| T22/96 | 1996 | 2 | AF364889 |
| T33/98 | 1998 | 2 | AF364887 |
| T37/98 | 1998 | 2 | AF364881 |
| T73/02 | 2002 | 14 | AY971663 |
| T74/03 | 2003 | 14 | AY971664 |
| T79/03 | 2003 | 14 | AY971665 |
| T85/04 | 2004 | ? | AY971693 |
| T90/04 | 2004 | 16 | AY971666 |
| T91/04 | 2004 | 3 | AY971667 |
| T121/07 | 2007 | 31 | JN711074 |
| T122/07 | 2007 | 5 | JN711075 |
| T124/07 | 2007 | 5 | - |
| T126/07 | 2007 | 31 | JN711076 |
| T129/07 | 2007 | 5 | JN711077 |
| T130/07 | 2007 | 5 | - |
| T131/07 | 2007 | 2 | JN711078 |
| T132/07 | 2007 | 2 | - |
| ISA4/07-1 | 2007 | | FN687290 |
| ISA4/07-2 | 2007 | | FN687291 |
| ISA2/07-1 | 2007 | | FN687286 |
| ISA6/07-1 | 2007 | | FN687294 |
| ISA7/07-1 | 2007 | | FN687303 |
| T136/07 | 2007 | 2 | - |
| T140/08 | 2008 | 5 | JN711079 |
| T144/08 | 2008 | 5 | JN711080 |
| T145/08 | 2008 | 5 | JN711081 |
| T147/08 | 2008 | 5 | JN711082 |
| T148/08 | 2008 | 5 | JN711083 |
| T149/08 | 2008 | 5 | JN711084 |
| T151/08 | 2008 | 5 | JN711085 |
| AR2/08 | 2008 | 0 | FN687348 |
| AR5/08 | 2008 | 0 | FN687350 |
| AR7/08 | 2008 | 0 | FN687351 |
| AR8/08 | 2008 | 0 | FN687352 |
| AR9/08 | 2008 | 0 | FN687353 |

| | | | |
|----------------|-------------|----------|-----------------|
| T152/09 | 2009 | 5 | JN711086 |
| T154/09 | 2009 | 5 | JN711087 |
| T158/09 | 2009 | 5 | JN711088 |
| T160/09 | 2009 | 5 | JN711089 |
| T161/09 | 2009 | 5 | JN711090 |
| T162/09 | 2009 | 0 | JN711091 |
| T167/10 | 2010 | 5 | JN711092 |

Finnmark

| | | | |
|-----------------|-------------|----------|-----------------|
| FM86/04 | 2004 | 1 | AY971659 |
| FM98/04 | 2004 | 14 | AY971660 |
| FM100/04 | 2004 | 7b | AY971658 |
| FM106/05 | 2005 | 14 | DQ108599 |
| FM107/05 | 2005 | 14 | DQ108600 |
| FM108/05 | 2005 | 14 | DQ108601 |
| FM114/05 | 2005 | 3 | JN711057 |
| FM116/06 | 2006 | 9 | JN711058 |
| FM117/06 | 2006 | 3 | - |
| FM119/06 | 2006 | 3 | - |
| FM168/10 | 2010 | 14 | JN711059 |
| FM173/11 | 2011 | 0 | JN711060 |
| FM174a/11 | 2011 | 14b | JN711061 |
| FM174b/11 | 2011 | 14b | JN711062 |

Unknown

| | | | |
|--------------|-------------|----------|-----------------|
| SK779 | 2006 | 0 | EU118820 |
| 20059B | 2005 | | FM203273 |
| 200411A | 2004 | | FM203262 |
| 200411B | 2004 | | FM203263 |
| 200511B | 2005 | | FM203297 |

Chile

| | | | |
|----------------|-------------|----------|-----------------|
| CH01/08 | 2008 | 7b | EU851043 |
| CH05/08 | 2008 | 35 | JN711093 |
| CH29/08 | 2008 | 0 | JN711094 |
| CH30/08 | 2008 | 0 | JN711095 |
| ISAV752 | 2009 | 7b | GU830900 |
| ISAV901 | 2009 | 15b | GU830908 |
| 26955-3 | 2007 | | EU625679 |

Faeroe Islands

| | | | |
|------------------|-------------|----------|-----------------|
| F72/02 | 2002 | 3 | AF526263 |
| F72b/02 | 2002 | | AY971656 |
| F72d/02 | 2002 | | AY971657 |
| F72e/02 | 2002 | | DQ108612 |
| FO/01/06 | 2006 | 0 | HQ664992 |
| FO/03/06 | 2006 | 0 | HQ664993 |
| FO/01b/07 | 2007 | 0 | HQ664995 |
| FO/03b/07 | 2007 | 0 | HQ664997 |

| | | | |
|------------------|-------------|----------|-----------------|
| FO/03a/07 | 2007 | 0 | HQ664996 |
| FO/01a/07 | 2007 | 0 | HQ664994 |
| FO/08/07 | 2007 | 0 | HQ664998 |
| FO/01/08 | 2008 | 0 | HQ664999 |

Scotland

| | | | |
|-------------------|-------------|----------|-----------------|
| Scot43/98 | 1998 | 7b | AF302802 |
| 1490/98 | 1998 | | AF391126 |
| NWM10 | 2007 | 0 | FJ178189 |
| Scot157/08 | 2008 | 0 | JN711096 |

Canada

| | | | |
|-----------------|------|---|----------|
| NS2003 | 2003 | 3 | AY601904 |
| RPC/NB 04-085-1 | 2004 | | AY963263 |
| U5571-1 | | | AF294881 |

USA

| | | | |
|----------------|-------------|----------|-----------------|
| USA2004 | 2004 | 0 | AY973194 |
|----------------|-------------|----------|-----------------|
