FIGURE 1

Mean Replikin Concentration in pB1 Gene Area of ISAV Isolates from Norway in Given Year

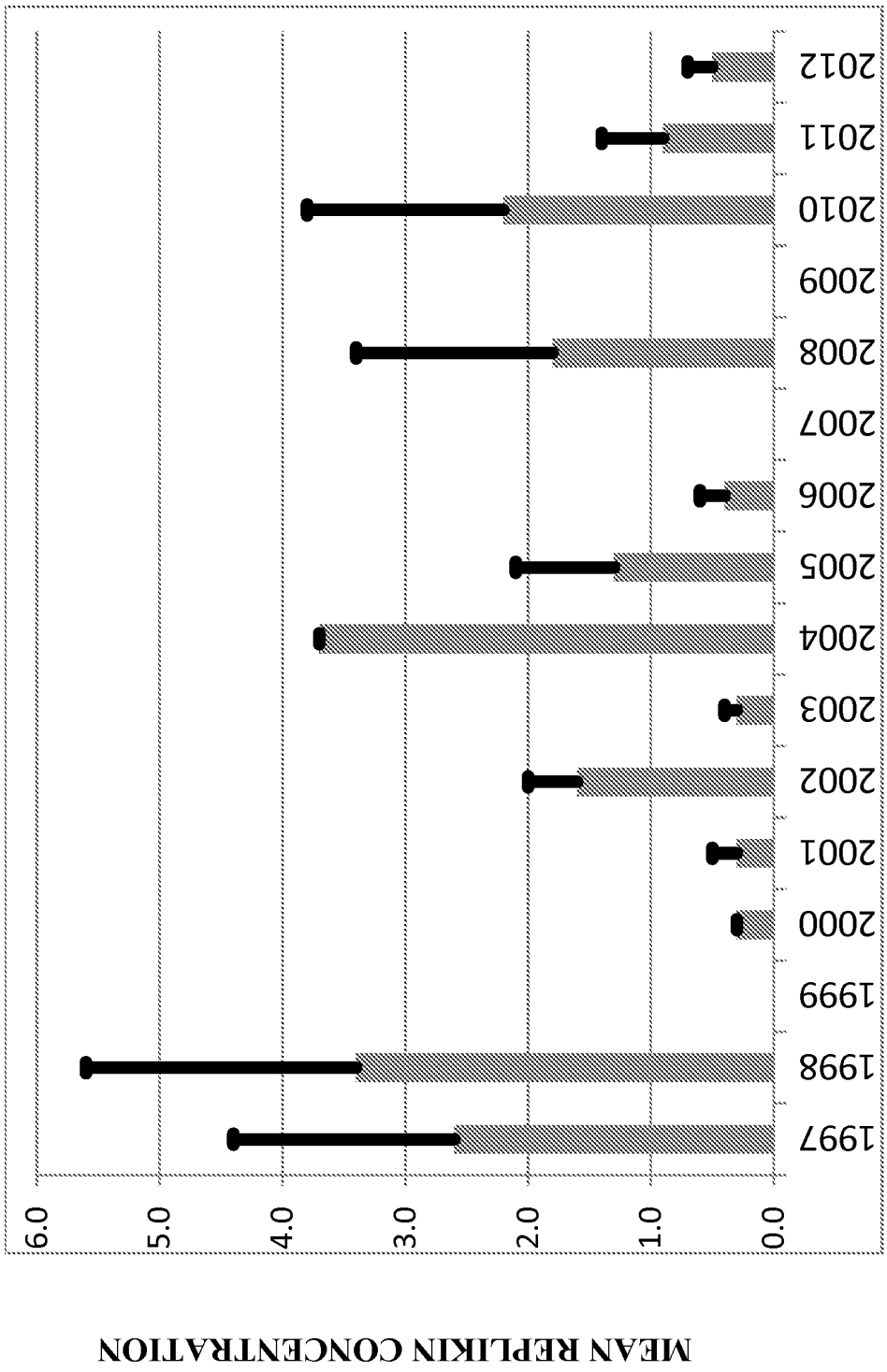


FIGURE 2

Mean Replikin Concentration in pB1 Gene Area of ISAV Isolates from Scotland in Given Year

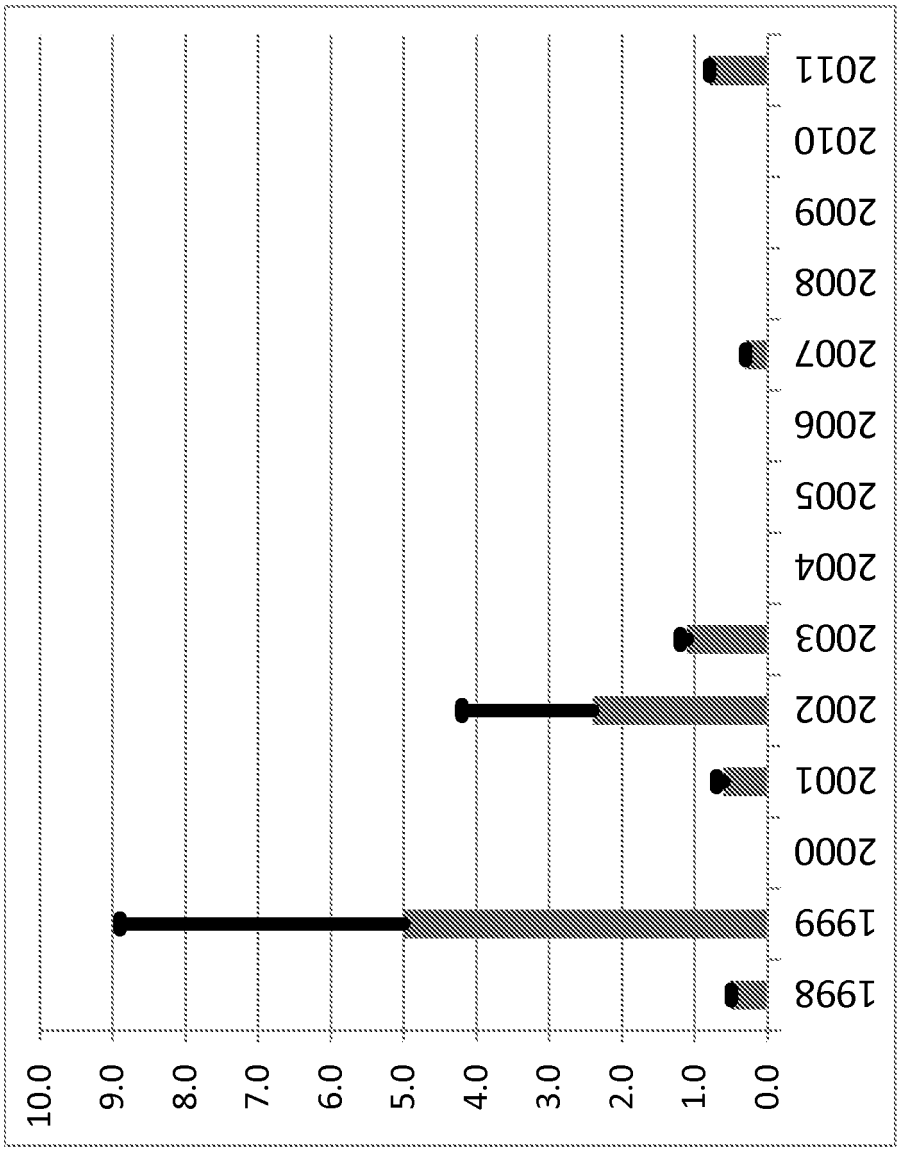


FIGURE 3

Mean Replikin Concentration in pB1 Gene Area of ISAV Isolates from Chile in Given Year

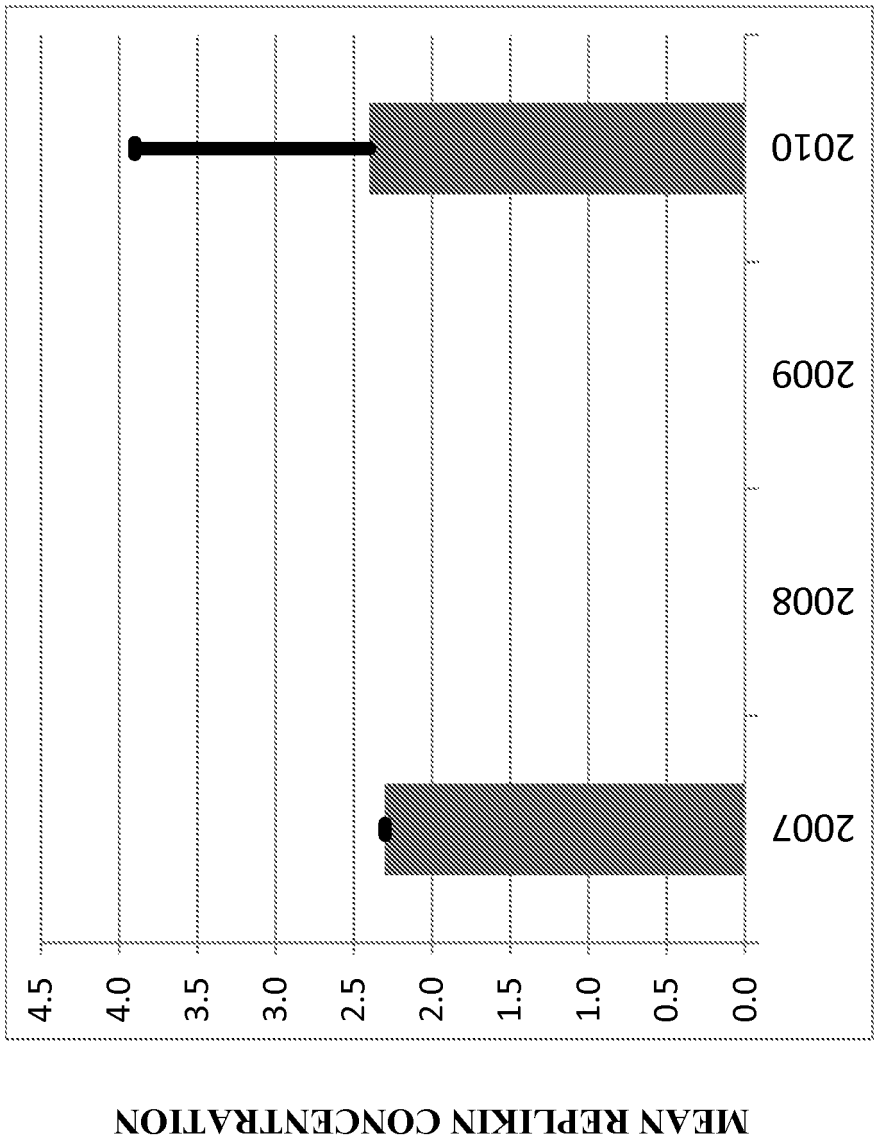


FIGURE 4

Mean Replikin Concentration in pB1 Gene Area of ISAV Isolates from Canada in Given Year

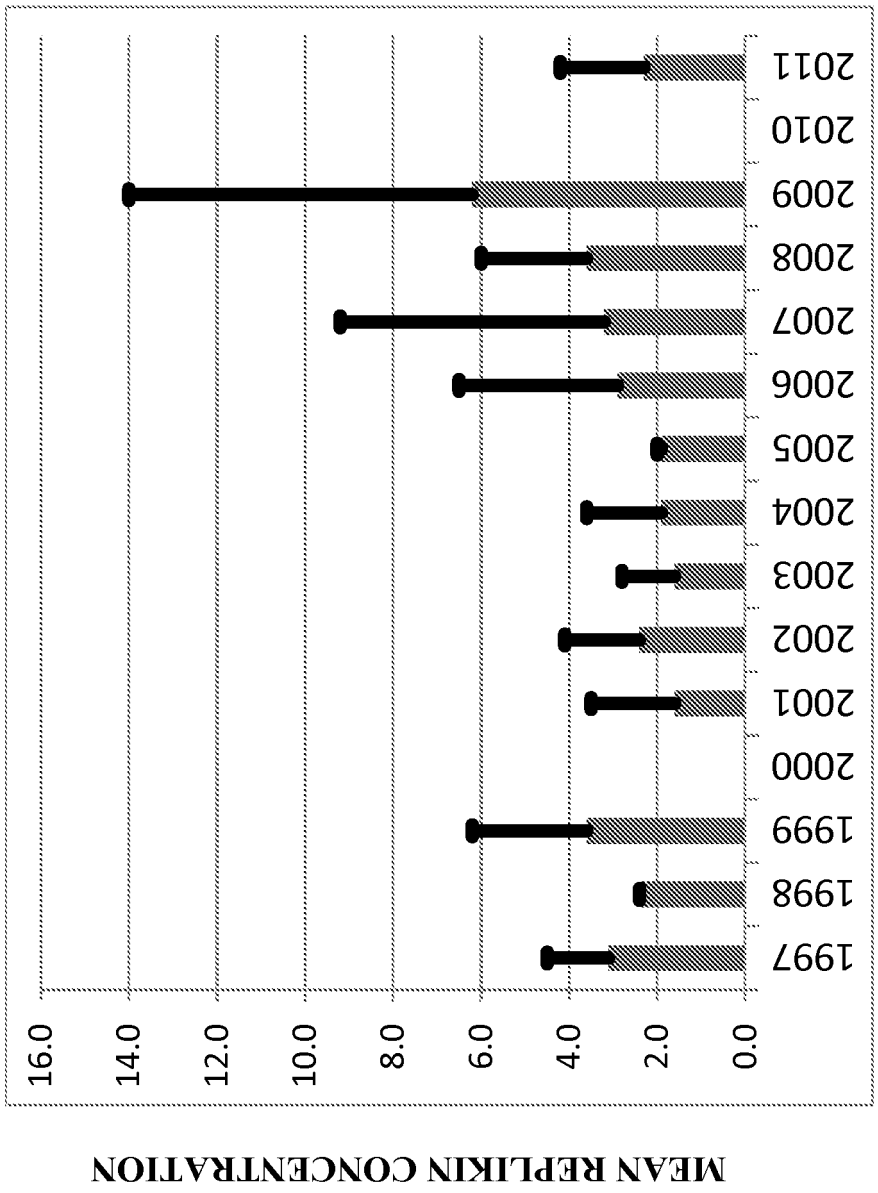


FIGURE 5A

PB1 polymerase [Infectious salmon anemia virus]
GenBank: ADF36496.1
LOCUS ADF36496 708 aa linear VRL 28-OCT-2010
DEFINITION PB1 polymerase [Infectious salmon anemia virus].
ACCESSION ADF36496
VERSION ADF36496.1 GI:294769234
DBSOURCE accession GU830896.1
KEYWORDS .
SOURCE Infectious salmon anemia virus (ISAV)
ORGANISM Infectious salmon anemia virus Viruses; ssRNA negative-strand viruses; Orthomyxoviridae; Isavirus.
REFERENCE 1 (residues 1 to 708)
AUTHORS Cottet,L., Cortez-San Martin,M., Tello,M., Olivares,E., Rivas-Aravena,A., Vallejos,E., Sandino,A.M. and Spencer,E.
TITLE Bioinformatic analysis of the genome of infectious salmon anemia virus associated with outbreaks with high mortality in chile
JOURNAL J. Virol. 84 (22), 11916-11928 (2010)
PUBMED 20810724
REFERENCE 2 (residues 1 to 708)
AUTHORS Olivares,E., Cottet,L., Sandino,A.M., Spencer,E. and Cortez,M.
TITLE Direct Submission
JOURNAL Submitted (19-FEB-2010) Biologia, Universidad de Santiago de Chile, Alameda 3363, Santiago 9170022, Chile
COMMENT Method: conceptual translation supplied by author.

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FIGURE 5B

FEATURES	Location/Qualifiers
source	1..708/organism="Infectious salmon anemia virus"/isolate="752"/host="Atlantic salmon"/db_xref="taxon:55987"/segment="2"/country="Chile"/note="acronym: ISAV"
Protein	1..708/product="PB1 polymerase"
Region	1..674/region_name="Flu_PB1"/note="Influenza RNA-dependent RNA polymerasesubunit PB1; pfam00602" /db_xref="CDD:109650"
CDS	1..708/gene="PB1"/coded_by="GU830896.1:1..2127"

ORIGIN

1 metlvggllt gedslvsmsn dvsclyvydg pmrvfsqnal mptlqsvkrs dqfskgktkr
61 fiidlfgmkr mwdignkhle denldetvgv adlglvkyli nnkydeaekt slrksmeeaf
121 eksmneefvv lnkgksandi isdtnamckf cvknwivatg frgrtmsdli ehhfrcmqgk
181 qevkgyiwkh kynerlkrkq lskeevkfdr eeytsrsfrl lsflknsert klepravfta
241 gvpwrafifv leqtmlvvnk ldpnsviwmg sdakinttns rikeigmknq gqtlvtltgd
301 nskynesmcp evmmiflrel gikgpmlevl dfalwqfsqk svkpvapikk rtsrstvvvk
361 adavnecrda fnekeleliq gvewmedgfi rvrrgmlmgm annafttast iassfsftpe
421 avytlqssdd fvtgscgrdv qharqrlema lkvskaagln vsqkksfyve gttfefnsmf
481 vrdgkvmang gnfenitvpg glgpstdlfv vgkqarnsml rgnlsfsqam emckigitnv
541 ekvyygnrky qelkneirek cgeetmsipe smggdrkpkp welpqsfdgi alkeavnrgh
601 wkaakyiksc csiefdeegd qswdtsktal vvirknetdm rrrtvktrnp kdkifndamn
661 kakrmyetvv drnpllglkg kggrltvkdl karklideve vikkkkhv

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FIGURE 6A

polymerase PB1 [Infectious salmon anemia virus]
GenBank: AAF72700.1
LOCUS AF262399_1 695 aa linear VRL 30- MAY-2000
DEFINITION polymerase PB1, partial [Infectious salmon anemia virus].
ACCESSION AAF72700
VERSION AAF72700.1 GI:8102010
DBSOURCE accession AF262399.1
KEYWORDS .
SOURCE Infectious salmon anemia virus
ORGANISM Infectious salmon anemia virus Viruses; ssRNA negative-strand viruses;
Orthomyxoviridae; Isavirus.
REFERENCE 1 (residues 1 to 695)
AUTHORS Krossoy,B., Nilsen,F., Falk,K., Endresen,C. and Nylund,A.
TITLE Phylogenetic analysis of Infectious salmon anemia virus segment 2 isolates from
Norway, Canada and Scotland
JOURNAL Unpublished
REFERENCE 2 (residues 1 to 695)

FIGURE 6B

AUTHORS Krossoy,B.
TITLE Direct Submission
JOURNAL Submitted (02-MAY-2000) Department of Fisheries and Marine Biology, University of Bergen, HIB-Thormohlensgt. 55, 5020 Bergen, Norway
COMMENTMethod: conceptual translation.
FEATURES Location/Qualifiers
source 1..695 /organism="Infectious salmon anemia virus"/isolate="Bay of Fundy/97"/db_xref="taxon:55987"/chromosome="2"/country="Canada"
Protein <1..695/product="polymerase PB1"
Region 3..661/region_name="Flu_PB1"/note="Influenza RNA-dependent RNA polymerasesubunit PB1; pfam00602"/db_xref="CDD:109650"
CDS 1..695/coded_by="AF262399.1:<1..2090"/codon_start=3
ORIGIN
1 slismsndvsclyvydgpmrvfsqnalmptlqsvkrsdqfskgktkrfi dlfgmkrmwd
61 ignkqleden ldetvgvadl glvkylinnk ydeaektslr ksmeeafeks mneefvvlnk
121 gksandiisd tnamckfcvk nwivatgfrg rtmsdliehh frcmqgkqev kgyiwkhkyn
181 erlkrkqlsk eevkfdreey tsrsfrllsf lknsertkle pravftagvp wrafifvleq

FIGURE 6C

241 tmlvvnkldp nsviwmgsda kinttnsrik eigmknqgqt lvtltgdnsk ynesmcpevm
301 mvflrelgik gpmlevldya lwqfsqksvk pvapikkrtg kstvvikads vkecrdafne
361 keleliqgve wmddgfvrvr rgmlmgmann afttastias sfsftpeavy tlqssddfvt
421 gscgrdvqha rqrlemalkv skaaglnvsq kksfyvegtt fefnsmfvrd gkvmanggnf
481 enmtvpgglg pstdlfvvgk qarnsmlrgn lsfsqamemc kigitnvekv yygnrkyqel
541 kneirekcge etmsipesmg gdrkprpwel pqsfdgialk eavnrghwka akyikscesi
601 efdeegdqsw dtsktalvvi rknetdmrrr tvktrnpkdk ifndamnkak rnyetvvdrn
661 pllglkgkgg rltvkdlkar klidevevvk krkhv