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APPENDIX

CHEMICAL AGENTS AND INSTRUMENTS

A. Research Instruments

ABI PRISM Sequencer (ABI 310 Genetic Analyzer, Applied Biosystems, Foster city, Canada)

Automatic adjustable micropipette (Gilson Medical Electronic, France)

Centrifuge 5417C (Eppendorf, Germany)

Centrifuge 5402 (Eppendorf, Germany)

DNA Thermal Cycler 2400 (Perkin Elmer, Cetus USA)

DNA Thermal Cycler 9700 (Perkin Elmer, Cetus USA)

Electrophoresis Chamber set (GelMate2000, Totobo Japan)

LightCycler Instrument Version 1.2 (Roche Diagnostic, Germany)

LightCycler Carousel (Roche Diagnostic, Germany)

LightCycler Glass Capillaries (Roche Diagnostic, Germany)

LightCycler Centrifuge adaptors (Roche Diagnostic, Germany)

Photodoc Camera (Spectronics Corporation, USA)

Photodoc Camera Hood Model CH810 (Spectronics Corporation, USA)

Photodoc Camera Hood Model CH131 (Spectronics Corporation, USA)

Polaroid Film 667 (Polaroid Corporation, USA)

Power supply model

Spectrophotometer (PE Applied Biosystem, USA)

Thermomixer 5436 (Eppendorf, Germany)

UV transilluminator (FotoPrepI, Fotodyne USA)

Vortex (Scientific Industry, USA)

B. Reagents

100 bp molecular marker (Promega corporation, USA)
Absolute ethanol (E. Merck, Darmstadt, W. Germany)
Acetic acid (E. Merck, Darmstadt, W. Germany)
Agarose (BioWhittaker Molecular Application, USA)
BigDye™ Terminator Cycle Sequencing reaction kit (Perkin Elmer, USA)
Bromphenol blue (Sigma, Mo., USA)
Disodium ethylenediamine tetraacetic acid: EDTA (Sigma, Mo., USA)
Ethidium bromide (Sigma, Mo., USA)
LightCycler-FastStart Master DNA Hybridization Probe kit
QIAamp Viral RNA Minikit (QIAGEN, USA)
QIAGEN purification kit (QIAGEN, USA)
Sodium acetate (E. Merck, Darmstadt., W. Germany)
Triton X-100 (Sigma, Mo., USA)
Tris base (USB)

C. Laboratory supplies

Filter pipette tip for P10, P20, P200, P1000 (Treff Lab, Switzerland)
Glassware (Pyrex, USA)
Microcentrifuge tubes (Costar, England)
Parafilm (American National Can, USA)

D. Enzymes

M-MLV Reverse transcriptase (Promega Corporation, USA)
RNasin (Promega Cooperation, USA)
Taq DNA polymerase (Promega Corporation, USA)

E. Reagents of RT-PCR

5X RT buffer:

10X PCR buffer: 500 mM KCl, 200 mM Tris-HCl pH 8.4, 25 mM MgCl₂
(Promega Corporation, USA)

Deoxynucleotide triphosphates (dNTPs) (Promega Corporation, USA)

Oligonucleotide primers (Bio Basic Inc., Canada)

Probes (PDEN1, PDEN2, PDEN3, and PDEN4) (TIB MOLBIOL, Germany)

F. Reagent of DNA Sequencing

ABI PRISM[™] Dye Terminator Cycle Sequencing Ready Reaction kit with
Amplitaq[®] DNA Polymerase FS, (Perkin-Elmer, USA)



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BIOGRAPHY

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