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Forensic Laboratory Examination Report

Lab Case #: D96-4153
Agency: D A 20TH JUDICIAL DISTRICT -
BOULDER COUNTY CO007015A
CO

Agency Case #: DA96-21871
Investigated by: Andy Horita
Submitted by: Jane Harmer, Andy Horita

Date of Submission: September 26, 2008, October 21,
2008

Date Reported: January 13, 2009

Reporting Section: Biological Sciences
Nature of Offense: HOMICIDE

Offense Code: 0999

Involved Subjects

Suspect:	PATSY RAMSEY	DOB:	SID:
Suspect:	JOHN RAMSEY	DOB:	SID:
Suspect:	DAVID LORD	DOB: 11/18/1963	SID:
Suspect:	ROBERT C FERBRACHE	DOB: 04/02/1980	SID:
Suspect:	Tarin Michael Worthington	DOB: 07/01/1966	SID:
Victim:	JONBENET RAMSEY	DOB: 08/06/1990	SID:

Item #:	Description of Evidence:
Item 8	Neck Ligature
Item 166	Wrist Ligature
Item 657	buccal swab, RCMP Corp. (Ret.) John Van Tassel
Item 658	Envelope with toothpick
Item 659	Envelope with sunflower seed
Item 660	Envelope with toothpick
Item 661	Swabs from steering wheel
Item 662	Arm rest fabric

Results/Opinions and Interpretations:

Examinations on item 660 did not reveal any material of evidentiary value.

DNA Packet # H containing collections from items 8, 166, 657, 658, 659, 661 and 662 has been forwarded for analysis.

DNA analysis was conducted on items 8-1, 166-1, 657-1, 658-1, 659-1, 661-1 and 662-1 at the Profiler Plus and Cofiler loci.

CBI Forensic Laboratory Report:

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The DNA profile developed from item 659-1 revealed the presence of a mixture. The major component of this mixture was of apparent female. The minor component of this mixture was uninterpretable.

An interpretable DNA profile was not obtained from Item 662-1 other than to note that it was of apparent male origin.

The DNA profile developed from item 8-1 revealed the presence of a mixture. The major component of this mixture matched the DNA profile developed from JonBenet Ramsey (item 14) at the interpretable loci. The following individuals are excluded as potential contributors to the minor component of this mixture: J. A. Ramsey, M. Ramsey, J. B. Ramsey, P. Ramsey, B. Ramsey (items 32-36), L. Hoffman-Pugh (item 48), L. Budman (item 390A-2), O. Barber (item 509), M. Falcon (item 512), G. Hoogstraton (item 548), F. White, Jr. (item 587), M. Archuleta (item 618), R. Ferbrache (item 643), P. Wolf (item 644), M. Reynolds (item 646), J. Stanton (item 647), J. Pickering (item 653-1), B. Perry (item 654-1), L. Demuth, III (item 655-1), Van Tassel (item 657-1); as well as, donors of the profiles developed from underwear (item 7) by Denver PD, gum (item 641), pillowcase (item 645), tissue sample (item 656C-1), toothpick (item 658-1), the major component developed from the seed (item 659-1).

The DNA profile developed from item 166-1 revealed the presence of a mixture. The following individuals are excluded as contributors to this profile: J. A. Ramsey, M. Ramsey, J. B. Ramsey, P. Ramsey, B. Ramsey (items 32-36), L. Hoffman-Pugh (item 48), L. Budman (item 390A-2), O. Barber (item 509), M. Falcon (item 512), G. Hoogstraton (item 548), F. White, Jr. (item 587), M. Archuleta (item 618), R. Ferbrache (item 643), P. Wolf (item 644), M. Reynolds (item 646), J. Stanton (item 647), J. Pickering (item 653-1), B. Perry (item 654-1), L. Demuth, III (item 655-1), Van Tassel (item 657-1); as well as, donors of the profiles developed from underwear (item 7) by Denver PD, gum (item 641), pillowcase (item 645), tissue sample (item 656C-1), toothpick (item 658-1), the major component developed from the seed (item 659-1). JonBenet Ramsey (item 14) cannot be excluded as a potential contributor to this mixture.

Further analysis can be done when additional standards are submitted for comparison.

Evidence Disposition:

The DNA packet will be kept frozen and may be stored at the CBI for up to one year from the original date of submission. All other items will be returned to the submitting agency.

Remarks:

DNA (deoxyribonucleic acid) analysis utilizes polymerase chain reaction technology (PCR) to analyze short tandem repeats (STRs). It may also be used to analyze STRs on the Y chromosome (YSTRs).

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For partial profiles, only the loci used in the statistical calculation are listed. The remaining loci were either inconclusive or provided no results. Statistically inconclusive loci may still be used for interpretation purposes. Amelogenin is not utilized in statistical calculations.

Applied Biosystems Profiler Plus/COfiler™ Amelogenin, D3S1358, vWA, FGA, D8S1179, D21S11, D18S51, D5S818, D13S317, D7S820, D16S539, TH01, TPOX, and CSF1PO

Examined by:



Sheri L. Murphy
Laboratory Agent/Criminalist
Biological Sciences

SLM/slm