Fairfax Cryobank
The Trusted Choice for Donor Sperm

Donor 2835

Genetic Testing Summary

Fairfax Cryobank recommends reviewing this genetic testing summary with your healthcare provider to determine suitability.

Last Updated: 08/27/18

Donor Reported Ancestry: Chinese Jewish Ancestry: No

Genetic Test*	Result	Comments/Donor's Residual Risk**
Chromosome analysis (karyotype)	Normal male karyotype	No evidence of clinically significant chromosome abnormalities
Hemoglobin evaluation	Normal hemoglobin fractionation and MCV/MCH results	Reduced risk to be a carrier for sickle cell anemia, beta thalassemia, alpha thalassemia trait (aa/-- and a-/a-) and other hemoglobinopathies
Cystic Fibrosis (CF) carrier screening	Negative by genotyping of 97 mutations in the CFTR gene	1/190

*No single test can screen for all genetic disorders. A negative screening result significantly reduces, but cannot eliminate, the risk for these conditions in a pregnancy.

**Donor residual risk is the chance the donor is still a carrier after testing negative.

genzyme

Cystic Fibrosis Mutation Analysis

Patient Name: Donor 2835, .
Referring Physician: [redacted]
Specimen #: [redacted] **Client #:** [redacted]
Patient ID: [redacted] **Case #:** [redacted]

Fairfax Cryobank [redacted]
[redacted]

DOB: Not Given
Sex: M
SSN:

Date Collected: 11/13/2007
Date Received: 11/15/2007
Lab ID: 2835071113
Hospital ID:
Specimen Type: **BLDPER**

ENTERED 11/26/07 MAP

Ethnicity: Asian

Indication: Carrier test / Gamete donor

RESULTS: Negative for the 97 mutations analyzed

INTERPRETATION

This individual is negative for the mutations analyzed. This result reduces but does not eliminate the risk to be a CF carrier.

COMMENTS:

Mutation Detection Rates among Ethnic Groups — Detection rates are based on mutation frequencies in patients affected with cystic fibrosis. Among individuals with an atypical or mild presentation (e.g. congenital absence of the vas deferens, pancreatitis) detection rates may vary from those provided here.

Ethnicity	Carrier risk reduction when no family history	Detection rate	References
African American	1/65 to 1/338	81%	Genet in Med 3:168, 2001
Ashkenazi Jewish	1/26 to 1/834	97%	Am J Hum Genet 51:951, 1994
Asian		Not Provided	Insufficient data
Caucasian	1/25 to 1/343	93%	Genet in Med 3:168, 2001; Genet in Med 4:90, 2002
Hispanic	1/46 to 1/205	78%	Genet in Med 3:168, 2001;www.dhs.ca.gov/pcfh/gdb/html/PDE/CFStudy.htm
Jewish, non-Ashkenazi		Varies by country of origin	Genet Testing 5:47, 2001, Genet Testing, 1:35, 1997
Other or Mixed Ethnicity		Not Provided	Detection rate not determined and varies with ethnicity

This interpretation is based on the clinical and family relationship information provided and the current understanding of the molecular genetics of this condition.

METHOD

DNA is isolated from the sample and tested for the 97 CF mutations listed. Regions of the *CFTR* gene are amplified enzymatically and subjected to a solution-phase multiplex allele-specific primer extension with subsequent hybridization to a bead array and fluorescent detection. The assay discriminates between ΔF508 and the following polymorphisms: F508C, I506V and I507V. In some cases, specific allele identification requires enzymatic amplification followed by hybridization to oligonucleotide probes.

Signed: Ruth A Heim, PhD, FACMG

Date: 11/23/2007

Ruth A. Heim, Ph.D., FACMG

Testing Performed At Genzyme Genetics 3400 Computer Drive Westborough, MA 01581 1-800-255-7357

Quest Diagnostics®

QUEST DIAGNOSTICS INCORPORATED
CLIENT SERVICE 800.825.7330

PATIENT INFORMATION
ID,2835

DOB: AGE:
GENDER: M FASTING: N

REPORT STATUS **FINAL**

ORDERING PHYSICIAN
[redacted]

SPECIMEN INFORMATION
SPECIMEN: [redacted]
REQUISITION: [redacted]

ID: 2835.[redacted]
PHONE:

CLIENT INFORMATION
N19104437 HO13
FAIRFAX CRYO BANK
[redacted]

COLLECTED: 12/06/2007 12:00 ET
RECEIVED: 12/06/2007 21:09 ET
REPORTED: 12/07/2007 06:50 ET

ENTERED 12/7/07 MW

Test Name	In Range	Out of Range	Reference Range	Lab
CBC (INCLUDES DIFF/PLT)				QHO
WHITE BLOOD CELL COUNT	4.5		3.8-10.8 Thousand/uL	
RED BLOOD CELL COUNT	4.57		4.20-5.80 Million/uL	
HEMOGLOBIN	14.7		13.2-17.1 g/dL	
HEMATOCRIT	41.3		38.5-50.0 %	
MCV	90.3		80.0-100.0 fL	
MCH	32.1		27.0-33.0 pg	
MCHC	35.5		32.0-36.0 g/dL	
RDW	12.4		11.0-15.0 %	
PLATELET COUNT	224		140-400 Thousand/uL	
ABSOLUTE NEUTROPHILS	2655		1500-7800 cells/uL	
ABSOLUTE LYMPHOCYTES	1530		850-3900 cells/uL	
ABSOLUTE MONOCYTES	225		200-950 cells/uL	
ABSOLUTE EOSINOPHILS	90		15-500 cells/uL	
ABSOLUTE BASOPHILS	0		0-200 cells/uL	
NEUTROPHILS	59		%	
LYMPHOCYTES	34		%	
MONOCYTES	5		%	
EOSINOPHILS	2		%	
BASOPHILS	0		%	

PERFORMING LABORATORY INFORMATION

QHO QUEST DIAGNOSTICS-HORSHAM, 900 BUSINESS CENTER DRIVE, HORSHAM, PA 19044, Laboratory Director: HERMAN HURWITZ, MD, FCAP
CLIA: 39D0204404

LIST OF RESULTS PRINTED IN THE OUT OF RANGE COLUMN:

genzyme

Chromosome Analysis

ENTERED 12/19/07 mar

Patient Name: Donor, 2835
Referring Physician: [redacted]
Specimen # [redacted]
Patient ID: 8[redacted]

Client #: [redacted]

Fairfax Cryobank [redacted]

DOB: Not Given
SSN:

Date Collected: 12/06/2007
Date Received: 12/07/2007
Lab ID: 2835[redacted]
Hospital ID:
Specimen Type: **Peripheral Blood**

Indication: Gamete donor

Metaphases Counted:	20			**Banding Technique:**	GTW
Metaphases Analyzed:	5	**Number of Cultures:**	2	**Banding Resolution:**	500
Metaphases Karyotyped:	2			**Dept. Section:**	B1

RESULTS: **46,XY**
Male karyotype

INTERPRETATION:

This analysis shows no evidence of clinically significant numerical or structural chromosome abnormalities. The standard cytogenetic methodology utilized in this analysis does not routinely detect small rearrangements and low level mosaicism, and cannot detect microdeletions.

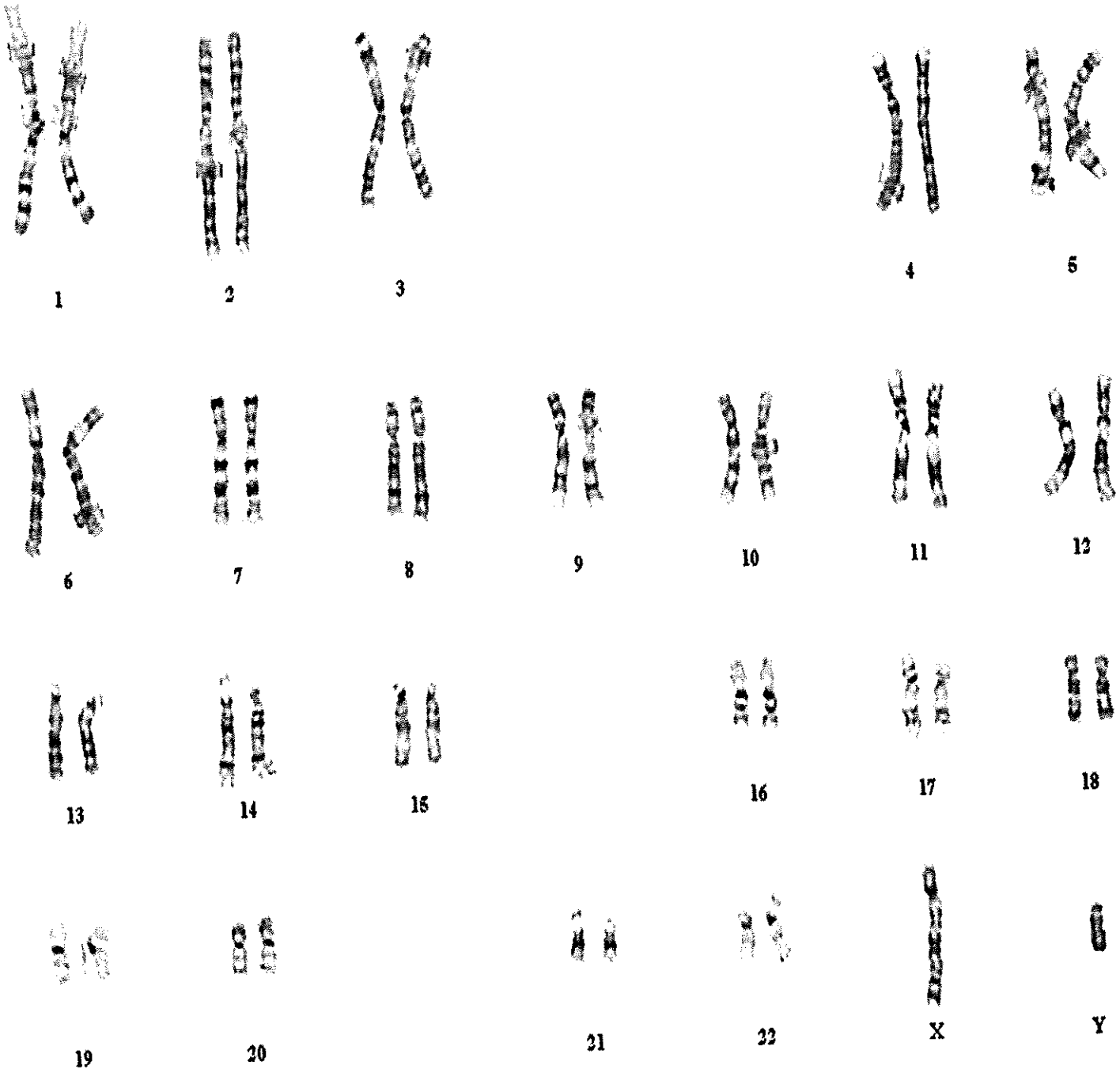
Signed: Suehan Berend, Ph.D., FACMG

Date: 12/17/200

Sue Berend

Testing Performed At Genzyme Genetics 10421 University Center Drive Suite 100 Tampa, FL 33612 1-800-966-4440

genzyme



Specimen #: [redacted]
Specimen Type: BLDPER
Patient Name: Donor, 2835
Image ID: BKE1
Karyotype: 46,XY

Dept ID: B1
Date Received: 12/07/2007
Date Reviewed: 12/17/2007
Reviewed By: SB2

genzyme
GENERAL
genetics