

**Baylor Miraca**  
 Genetics Laboratories

**BAYLOR MIRACA GENETICS LABORATORIES**

2450 Holcombe Blvd - Houston, TX 77021 - 1-800-411-4363

Fax: 713-798-2787 - www.bmgil.com - genetictest@bcm.edu

Patient Name: DONOR 4622

Date of birth: [REDACTED]

Gender: M

Hospital/MR #:

Accession #:

Sample Type: EXT DNA

Test Code: 3356

Indication: Asymptomatic/Positive Family History

Lab Number: [REDACTED]

Family #:

Date Collected: 08/10/2015

Date Received: 08/11/2015

Date Reported: 8/27/2015

Fairfax Cryobank Sendouts-Fairfax

3015 Williams Dr #110

Tel No.: 703-876-3869

Fax No: 703-698-3933

CC: Suzanne Seitz

Fax # 703-698-3933

CC: Harvey Stern

Fax # 703-698-3933

**VLCAD Deficiency**  
**ACADVL Sequence Analysis**  
 Familial Mutation/Variant Analysis

**RESULTS:**


62817-1390128

A heterozygous c.553G&gt;A (p.G185S) familial pathogenic variant was detected.

**Pathogenic Variant(s)/ Mutation(s)**

Nucleotide Change	Amino Acid Change	Location	Zygosity	Reference(s) / Comment(s)
c.553G>A	p.G185S	exon 7	heterozygous	PMID: 9973285

**INTERPRETATION:**

Test results should be interpreted in the context of the patient's clinical presentation and family history. Previous sequence analysis performed in this laboratory detected a heterozygous c.553G>A (p.G185S) pathogenic variant in this individual's child who had abnormal newborn screening results suggestive of VLCAD deficiency (Lab# 56744). This variant has been reported in patients with VLCAD deficiency (PMID: 9973285). We were requested to investigate this individual for the c.553G>A (p.G185S) pathogenic variant.

We received extracted DNA and the DNA sample was PCR amplified for the relevant region and then sequenced in the forward and reverse directions. Other regions of the ACADVL gene were not examined. This analysis indicates that this individual is heterozygous for the c.553G>A (p.G185S) pathogenic variant. Thus, this individual is a carrier of the familial c.553G>A (p.G185S) pathogenic variant.

Clinical correlation and genetic counseling are recommended. Targeted sequence analysis (test code 3356) is available for that this individual's relatives.

**METHOD:**

The region(s) containing the previously identified familial mutations/variants in the ACADVL (NM\_000182) gene were PCR amplified and then sequenced in the forward and reverse directions using automated fluorescent dideoxy sequencing methods. Nucleotide 1 corresponds to the A of the start codon ATG.

William J. Craig, M.D., Ph.D., FACMG  
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 Medical Director

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This test was developed and its performance characteristics determined by Baylor Miraca Genetics Laboratories (CAP# 2109314/CLIA# 4500660090). It has not been cleared or approved by the FDA. The laboratory is regulated under CLIA as qualified to perform high-complexity testing. This test is used for clinical purposes. It should not be regarded as investigational or for research.

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Ordering Practice:

Practice Code: 926  
Fairfax Cryobank  
3015 Williams Drive, #110, Fairfax, VA,  
22031, US  
Physician: Suzanne Seitz  
Report Generated: 2015-09-08  
Report Updated: 2015-09-08

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Donor 4622

DOB: [REDACTED]  
Gender: Male  
Ethnicity: Other  
Procedure ID: 29150  
Kit Barcode: [REDACTED]  
Method: Genotyping  
Specimen: Sperm, #30392  
Specimen Collection: 2015-08-25  
Specimen Received: 2015-08-28  
Specimen Analyzed: 2015-09-08

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Partner Not Tested

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## SUMMARY OF RESULTS

## NO MUTATIONS IDENTIFIED


Donor 4622 was not identified to carry any of the mutations tested.

All mutations analyzed were not detected, reducing but not eliminating your chance to be a carrier for the associated genetic diseases. A list of all the diseases and mutations you were screened for is included later in this report. The test does not screen for every possible genetic disease.

For disease information, please visit [www.recombine.com/diseases](http://www.recombine.com/diseases). To speak with a Genetic Counselor, call [855.OUR.GENES](tel:855.OUR.GENES).

♂ Male

Panel: Fairfax Cryobank Panel , Diseases Tested: 21, Mutations Tested: 382, Genes Tested: 22, Null Calls: 0

Assay performed by   
Reprogenetics

CLIA ID: 31D1054821

Lab Technician Bo Chu

Reviewed by Pere Colls, PhD, HCLD, Lab Director

## Methods and Limitations

**Genotyping:** Genotyping is performed using the Illumina Infinium Custom HD Genotyping assay to identify mutations in >200 genes. The assay is not validated for homozygous mutations, and it is possible that individuals affected with disease may not be accurately genotyped.

**Spinal Muscular Atrophy:** Spinal Muscular Atrophy is tested for via an Identity-by-State shared haplotype comparison algorithm. Detection is limited to haplotypes within our library of known carriers of the most common mutation (deletion of Exon 7).

































**Limitations:** In some cases, genetic variations other than that which is being assayed may interfere with mutation detection, resulting in false-negative or false-positive results. Additional sources of error include, but are not limited to: sample contamination, sample mix-up, bone marrow transplantation, blood transfusions, and technical errors.

The test does not test for all forms of genetic disease, birth defects, and intellectual disability. All results should be interpreted in the context of family history; additional evaluation may be indicated based on a history of these conditions. Additional testing may be necessary to determine mutation phase in individuals identified to carry more than one mutation in the same gene. All mutations included within the genes assayed may not be detected, and additional testing may be appropriate for some individuals.

## Diseases &amp; Mutations Assayed

● High Impact ● Treatment Benefits ● X-Linked ● Moderate Impact

H	T	X	M	Disease	#	Mutations
<span style="color: red;">●</span>	<span style="color: gray;">○</span>	<span style="color: gray;">○</span>	<span style="color: gray;">○</span>	Alpha Thalassemia	10	♂ Genotyping   SEA deletion, 11.1kb deletion, c.207C>A (p.N69K), c.223G>C (p.D75G), c.2T>C (p.M1T), c.207C>G (p.N69K), c.340_351delCTCCCGCCGAG (p.L114_E117del), c.377T>C (p.L126P), c.427T>C (p.X143Qext32), c.*+94A>G
<span style="color: red;">●</span>	<span style="color: green;">●</span>	<span style="color: gray;">○</span>	<span style="color: gray;">○</span>	Beta Thalassemia	83	♂ Genotyping   c.17_18delCT, c.20delA (p.E7Gfs), c.217insA (p.S73Kfs), c.223+702_444+342del620insAAGTAGA, c.230delC, c.25_26delAA, c.315+1G>A, c.315+2T>C, c.316-197C>T, c.316-146T>G, c.315+745C>G, c.316-1G>A, c.316-1G>C, c.316-2A>G, c.316-3C>A, c.316-3C>G, c.4delG (p.V2Cfs), c.51delC (p.K18Rfs), c.93-21G>A, c.92+1G>A, c.92+5G>A, c.92+5G>C, c.92+5G>T, c.92+6T>C, c.93-1G>A, c.93-1G>T, c.-50A>C, c.a-78g, c.a-79g, c.a-81g, c.A52T (p.K18X), c.c-137g, c.c-138t, c.c-151t, c.C118T (p.Q40X), c.G169C (p.G57R), c.G295A (p.V99M), c.G34A (p.V12I), c.G415C (p.A139P), c.G47A (p.W16X), c.G48A (p.W16X), c.t-80a, c.T2C (p.M1T), c.T75A (p.G25G), c.444+111A>G, c.g-29a, c.68_74delAAGTTGG, c.G92C (p.R31T), c.27_28insG, c.92+1G>T, c.92+1G>C, c.93-15T>G, c.93-1G>C, c.112delT, c.G113A (p.W38X), c.G114A (p.W38X), c.126delC, c.444+113A>G, c.250delG, c.225delC, c.383_385delAGG (p.Q128_A129delQAinsP), c.321_322insG (p.N109fs), c.316-1G>T, c.316-2A>C, c.316-106C>T, c.287_288insA (p.L97fs), c.271G>T (p.E91X), c.203_204delTG (p.V68Afs), c.154delC (p.P52fs), c.135delC (p.F46fs), c.92+2T>A, c.92+2T>C, c.90C>T (p.G30G), c.59A>G (p.N20S), c.46delT (p.W16Gfs), c.45_46insG (p.L16fs), c.36delT (p.T13fs), c.2T>G (p.M1R), c.1A>G (p.M1V), c.c-137t, c.c-136g, c.c-142t, c.c-140t
<span style="color: red;">●</span>	<span style="color: gray;">○</span>	<span style="color: gray;">○</span>	<span style="color: gray;">○</span>	Bloom Syndrome	24	♂ Genotyping   c.2207_2212delATCTGAinsTAGATTC (p.Y736Lfs), c.2407insT, c.557_559delCAA (p.S186X), c.1284G>A (p.W428X), c.1701G>A (p.W567X), c.1933C>T (p.Q645X), c.C2528T (p.T843I), c.C2695T (p.R899X), c.G3107T (p.C1036F), c.2923delC (p.Q975K), c.3558+1G>T, c.3875-2A>G, c.2074+2T>A, c.2343_2344dupGA (p.781EfsX), c.380delC (p.127Tfs), c.3564delC (p.1188Dfs), c.4008delG (p.1336Rfs), c.C947G (p.S316X), c.2193+1_2193+9del9, c.C1642T (p.Q548X), c.3143delA (p.1048NfsX), c.356_357delTA (p.Cys120Hisfs), c.4076+1delG, c.C3281A (p.S1094X)
<span style="color: red;">●</span>	<span style="color: gray;">○</span>	<span style="color: gray;">○</span>	<span style="color: gray;">○</span>	Canavan Disease	8	♂ Genotyping   c.433-2A>G, c.A854C (p.E285A), c.C693A (p.Y231X), c.C914A (p.A305E), c.A71G (p.E24G), c.C654A (p.C218X), c.T2C (p.M1T), c.G79A (p.G27R)

H	T	X	M	Disease	#	Mutations
				Cystic Fibrosis	130	♂ Genotyping   c.1029delC, 1153_1154insAT, c.1519_1521delATC (p.507delI), c.1521_1523delCTT (p.508delF), c.1545_1546delTA (p.Y515Xfs), c.1585-1G>A, c.164+12T>C, c.1680-886A>G, c.1680-1G>A, c.1766+1G>A, c.1766+1G>T, c.1766+5G>T, c.1818delB4, c.1911delG, c.1923delCTCAAACTinsA, c.1973delGAAATTCATCTinsAGAAA, c.2052delA (p.K684fs), c.2052insA (p.Q685fs), c.2051_2052delAAinsG (p.K684SfsX38), c.2174insA, c.261delTT, c.2657+5G>A, c.273+1G>A, c.273+3A>C, c.274-1G>A, c.2988+1G>A, c.3039delC, c.3140-26A>G, c.325delTATinsG, c.3527delC, c.3535delACCA, c.3691delT, c.3717+12191C>T, c.3744delA, c.3773_3774insT (p.L1258fs), c.442delA, c.489+1G>T, c.531delT, c.579+1G>T, c.579+5G>A (IVS4+5G>A), c.803delA (p.N268fs), c.805_806delAT (p.I269fs), c.933_935delCTT (p.311delF), c.A1645C (p.S549R), c.A2128T (p.K710X), c.C1000T (p.R334W), c.C1013T (p.T338I), c.C1364A (p.A455E), c.C1477T (p.Q493X), c.C1572A (p.C524X), c.C1654T (p.Q552X), c.C1657T (p.R553X), c.C1721A (p.P574H), c.C2125T (p.R709X), c.C223T (p.R75X), c.C2668T (p.Q890X), c.C3196T (p.R1066C), c.C3276G (p.Y1092X), c.C3472T (p.R1158X), c.C3484T (p.R1162X), c.C349T (p.R117C), c.C3587G (p.S1196X), c.C3712T (p.Q1238X), c.C3764A (p.S1255X), c.C3909G (p.N1303K), c.G1040A (p.R347H), c.G1040C (p.R347P), c.G1438T (p.G480C), c.G1624T (p.G542X), c.G1646A (p.S549N), c.G1646T (p.S549I), c.G1652A (p.G551D), c.G1675A (p.A559T), c.G1679C (p.R560T), c.G178T (p.E60X), c.G1865A (p.G622D), c.G254A (p.G85E), c.G271A (p.G91R), c.G274T (p.E92X), c.G3209A (p.R1070Q), c.G3266A (p.W1089X), c.G3454C (p.D1152H), c.G350A (p.R117H), c.G3611A (p.W1204X), c.G3752A (p.S1251N), c.G3846A (p.W1282X), c.G3848T (p.R1283M), c.G532A (p.G178R), c.G988T (p.G330X), c.T1090C (p.S364P), c.T3302A (p.M1101K), c.T617G (p.L206W), c.C14T (p.P5L), c.G19T (p.E7X), c.G171A (p.W57X), c.313delA (p.I105fs), c.G328C (p.D110H), c.580-1G>T, c.G1055A (p.R352Q), c.C1075A (p.Q359K), c.C1079A (p.T360K), c.T1647G (p.S549R), c.1976delA (p.N659fs), c.C2290T (p.R764X), c.2737_2738insG (p.Y913X), c.3067_3072delATAGTG (p.I1023_V1024delT), c.3536_3539delCCAA (p.T1179fs), c.3659delC (p.T1220fs), c.G3808A (p.D1270N), c.G4056C (p.Q1352H), c.C4364G (p.S1455X), c.C4003T (p.L1335F), c.G2538A (p.W846X), c.C200T (p.P67L), c.C4426T (p.Q1476X), c.1116+1G>A, c.1986_1989delAACT (p.T663R), c.2089_2090insA (p.R697Kfs), c.2215delG (p.V739Y), c.T263G (p.L196X), c.3022delG (p.V1008S), c.3908dupA (p.N1303Kfs), c.C658T (p.Q220X), c.C868T (p.Q290X), c.1526delG (p.G509fs), c.2908+1085-3367+260del7201, c.C11A (p.S4X), c.A3700G (p.I1234V), c.A416T (p.H139I), c.T366A (p.Y122X)
				Familial Dysautonomia	4	♂ Genotyping   c.2204+6T>C, c.C2741T (p.P914L), c.G2087C (p.R696P), c.C2128T (p.Q710X)
				Familial Hyperinsulinism: Type 1: ABCC8 Related	10	♂ Genotyping   c.3989-9G>A, c.4159_4161delTTC (p.1387delF), c.C4258T (p.R1420C), c.C4477T (p.R1493W), c.G2147T (p.G716V), c.G4055C (p.R1352P), c.T560A (p.V187D), c.4516G>A (p.E1506K), c.C2506T (p.Q836X), c.579+2T>A
				Fanconi Anemia: Type C	8	♂ Genotyping   c.456+4A>T, c.67delG, c.C37T (p.Q13X), c.C553T (p.R185X), c.T1661C (p.L554P), c.C1642T (p.R548X), c.G66A (p.W22X), c.G65A (p.W22X)
				Gaucher Disease	6	♂ Genotyping   c.84_85insG, c.A1226G (p.N409S), c.A1343T (p.D448V), c.C1504T (p.R502C), c.G1297T (p.V433L), c.G1604A (p.R535H)
				Glycogen Storage Disease: Type IA	13	♂ Genotyping   c.376_377insTA, c.79delC, c.979_981delTTC (p.327delF), c.C1039T (p.Q347X), c.C247T (p.R83C), c.C724T (p.Q242X), c.G248A (p.R83H), c.G562C (p.G188R), c.G648T, c.G809T (p.G270V), c.A113T (p.D38V), c.975delG (p.L326fs), c.724delC
				Joubert Syndrome	1	♂ Genotyping   c.G35T (p.R12L)
				Maple Syrup Urine Disease: Type 1B	6	♂ Genotyping   c.G1114T (p.E372X), c.G548C (p.R183P), c.G832A (p.G278S), c.C970T (p.R324X), c.G487T (p.E163X), c.C853T (p.R285X)

H	T	X	M	Disease	#	Mutations
●	●	○	○	Maple Syrup Urine Disease: Type 3	8	♂ Genotyping   c.104_105insA, c.G685T (p.G229C), c.A214G (p.K72E), c.A1081G (p.M361V), c.G1123A (p.E375K), c.T1178C (p.I393T), c.C1463T (p.P488L), c.A1483G (p.R495G)
●	○	○	○	Mucopolidosis: Type IV	4	♂ Genotyping   c.406-2A>G, c.G1084T (p.D362Y), c.C304T (p.R102X), c.244delC (p.L82fsX)
●	○	○	○	Nemaline Myopathy: NEB Related	1	♂ Genotyping   c.7434_7536del2502bp
●	○	○	○	Niemann-Pick Disease: Type A	6	♂ Genotyping   c.996delC, c.G1493T (p.R498L), c.T911C (p.L304P), c.C1267T (p.H423Y), c.G1734C (p.K578N), c.1493G>A (p.R498H)
●	○	○	○	Spinal Muscular Atrophy: SMN1 Linked	19	♂ Genotyping   DEL EXON 7, c.22_23insA, c.43C>T (p.Q15X), c.91_92insT, c.305G>A (p.W102X), c.400G>A (p.E134K), c.439_443delGAAGT, c.558delA, c.585_586insT, c.683T>A (p.L228X), c.734C>T (p.P245L), c.768_778dupTGCTGATGCTT, c.815A>G (p.Y272C), c.821C>T (p.T274I), c.823G>A (p.G275S), c.834+2T>G, c.835-18_835-12delCCTTTAT, c.835G>T, c.836G>T
●	○	○	○	Tay-Sachs Disease	30	♂ Genotyping   c.1073+1G>A, c.1277_1278insTATC, c.1421+1G>C, c.805+1G>A, c.C532T (p.R178C), c.G533A (p.R178H), c.G805A (p.G269S), c.C1510T (p.R504C), c.G1496A (p.R499H), c.G509A (p.R170Q), c.A1003T (p.I335F), c.910_912delTTC (p.305delF), c.G749A (p.G250D), c.T632C (p.F211S), c.C629T (p.S210F), c.613delC, c.A611G (p.H204R), c.G598A (p.V200M), c.A590C (p.K197T), c.571-1G>T, c.C540G (p.Y180X), c.T538C (p.Y180H), c.G533T (p.R178L), c.C508T (p.R170W), c.C409T (p.R137X), c.T380G (p.L127R), c.346+1G>C, c.T116G (p.L39R), c.G78A (p.W26X), c.A1G (p.M1V)
●	○	○	○	Usher Syndrome: Type 1F	6	♂ Genotyping   c.C733T (p.R245X), c.2067C>A (p.Y684X), c.C7T (p.R3X), c.C1942T (p.R648X), c.2800C>T (p.R934X), c.4272delA (p.L1425fs)
●	○	○	○	Usher Syndrome: Type 3	4	♂ Genotyping   c.T144G (p.N48K), c.T359A (p.M120K), c.300T>G (p.Y176X), c.C634T (p.Q212X)
●	○	○	○	Walker-Warburg Syndrome	1	♂ Genotyping   c.1167insA (p.F390fs)



12738

FAIRFAX CRYOBANK-

REQUISITION NO.  
127380000000086

PHYSICIAN

PATIENT  
ID, 4622 DONOR

DOB

AGE

SEX

PATIENT ID

ACCESSION NO.

REQUESTS

RESULTS

OUT OF RANGE RESULTS

REFERENCE RANGE

UNITS

FN

\* Previously Reported on: 10/04/2012 @ 8:13PM \*

CBC W/DIFF, W/PLT

WBC	6.2	4.0-11.0	k/mm3
RBC	5.04	4.30-6.00	m/mm3
HEMOGLOBIN	15.4	13.0-18.0	g/dL
HEMATOCRIT	45.1	40.0-53.0	%
MCV	90	78-100	fL
MCH	30.6	27.0-34.0	pg
MCHC	34.1	31.0-37.0	g/dL
RDW (cv)	12.9	12.1-18.2	%
RDW (sd)	41.9	36.0-55.0	fL
PLATELET COUNT	225	130-450	k/mm3
MPV	10.8	7.5-14.0	fL
SEGMENTED NEUTROPHILS	60	40-85	%
LYMPHOCYTES	27	10-45	%
MONOCYTES	6	3-15	%
EOSINOPHILS	7	0-7	%
BASOPHILS	1	0-2	%
ABSOLUTE NEUTROPHIL	3.7	1.6-9.3	k/uL
ABSOLUTE LYMPHOCYTE	1.7	0.6-5.5	k/uL
ABSOLUTE MONOCYTE	0.3	0.1-1.6	k/uL
ABSOLUTE EOSINOPHIL	0.4	0.0-0.7	k/uL
ABSOLUTE BASOPHIL	0.0	0.0-0.2	k/uL
DIFFERENTIAL TYPE	Automated		

ENTERED  
10-2-13

AST 22 10-50 IU/L

CHOLESTEROL 191 &lt;200 mg/dL

ALT 19 2-60 IU/L

BLOOD GROUP AND RH TYPE O Negative

Sonora Quest Laboratories no longer performs "weak D" or "Du" testing routinely. It is no longer a regulatory requirement, nor is it recommended by the American Association of Blood Banks (AABB), except in testing of donor units.

Supplemental testing for weak D/Du Testing, may be performed for an additional charge by request. Please call the Client Services Department at 602-685-5050 and request test number 102317.

## HEMOGLOBINOPATHY EVALUATION

RED BLOOD CELL COUNT	5.10	4.30-6.00	M/MM3	G
HEMOGLOBIN	15.4	13.5-17.0	g/dL	G
MCV	90	78-100	fL	G
RDW	13.2	11.0-16.0	%	G

ID, 4622 DONOR - E90278930 - REPRINT REPORT

CONTINUED ON PAGE 2



## LABORATORY REPORT

2006  
IKONMAIL

12738

FAIRFAX CRYOBANK



A Subsidiary of Laboratory Sciences of Arizona

REQUISITION NO.  
127380000000PHYSICIAN  
086

Collected Date 10/01/2012	Received Date 10/01/2012 1847	Collection Time 1330
Reported Date 10/05/2012	Other I.D.	Fasting U

PATIENT  
ID, 4622 DONOR

DOB

AGE

SEX  
M

PATIENT ID

ACCESSION NO.

REQUESTS

RESULTS

OUT OF RANGE RESULTS

REFERENCE RANGE

UNITS

FN

HEMOGLOBIN A

97.3

94.5-98.5

%

G

HEMOGLOBIN A2

2.7

1.8-3.5

%

G

PATHOLOGIST INTERPRETATION

G

Normal phenotype. Reviewed by Dr. Louis Novoa-Takara

Evaluation performed by High Performance Liquid Chromatography (HPLC).  
Gel electrophoresis performed only when indicated.

Hemoglobinopathy Evaluation examines specimens for common variant hemoglobins such as S, C, and E as well as most other less common variant hemoglobins. Many, but not all, thalassemic disorders may be detected.

If, in spite of normal findings, a clinical suspicion of a hemoglobin abnormality persists please contact the laboratory.

RDWSD

43.4

36.0-55.0

%

G

TESTS ORDERED: AST;CHOLESTEROL;ALT;BLOOD GROUP AND RH TYPE  
CBC W/DIFF,W/PLT;HEMOGLOBINOPATHY EVALUATION

Unless otherwise noted,  
all testing performed at:

Sonora Quest Laboratories  
1255 West Washington Street  
Tempe, AZ 85281  
602.685.5000 or 800.766.6721

=

Test performed at: Banner Good Samaritan Medical Center  
1111 E. McDowell Road  
Phoenix, AZ 85006  
602.239.2000

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10-2-13

END OF REPORT. PRINTED 10/05/2012 @ 08:31:24 AM  
ID, 4622 DONOR - E90278930 - REPRINT REPORT





GENETICS & IVF  
Institute

ENTERED  
10.2.12

Cytogenetic Report

Client Fairfax Cryobank - [REDACTED]

Address [REDACTED]

Reporting Phone # [REDACTED]

Fax # [REDACTED]

Email [REDACTED]

Patient name/Donor Alias Donor # 4622

Patient DOB N/A

Donor # 4622-121001

Specimen type Peripheral Blood

Collection Date 10/01/2012

Accession # [REDACTED]

Date Received 10/02/2012

RESULTS

CYTOGENETIC ANALYSIS

FISH

Cells counted 20

Type of banding GTG

Probe(s) N/A

Cells analyzed 5

Band resolution 550

Nuclei scored N/A

Cells karyotyped 2

Modal chromosome # 46

KARYOTYPE 46,XY

INTERPRETATION

Normal male karyotype

No clonal numerical or structural abnormalities were identified. This normal cytogenetic result does not exclude the possibility of the presence of subtle rearrangements beyond the technical limits of detection with this test.

Comments

Wayne S. Stanley, Ph.D., FACMG  
Clinical Cytogeneticist

10/16/12  
Date

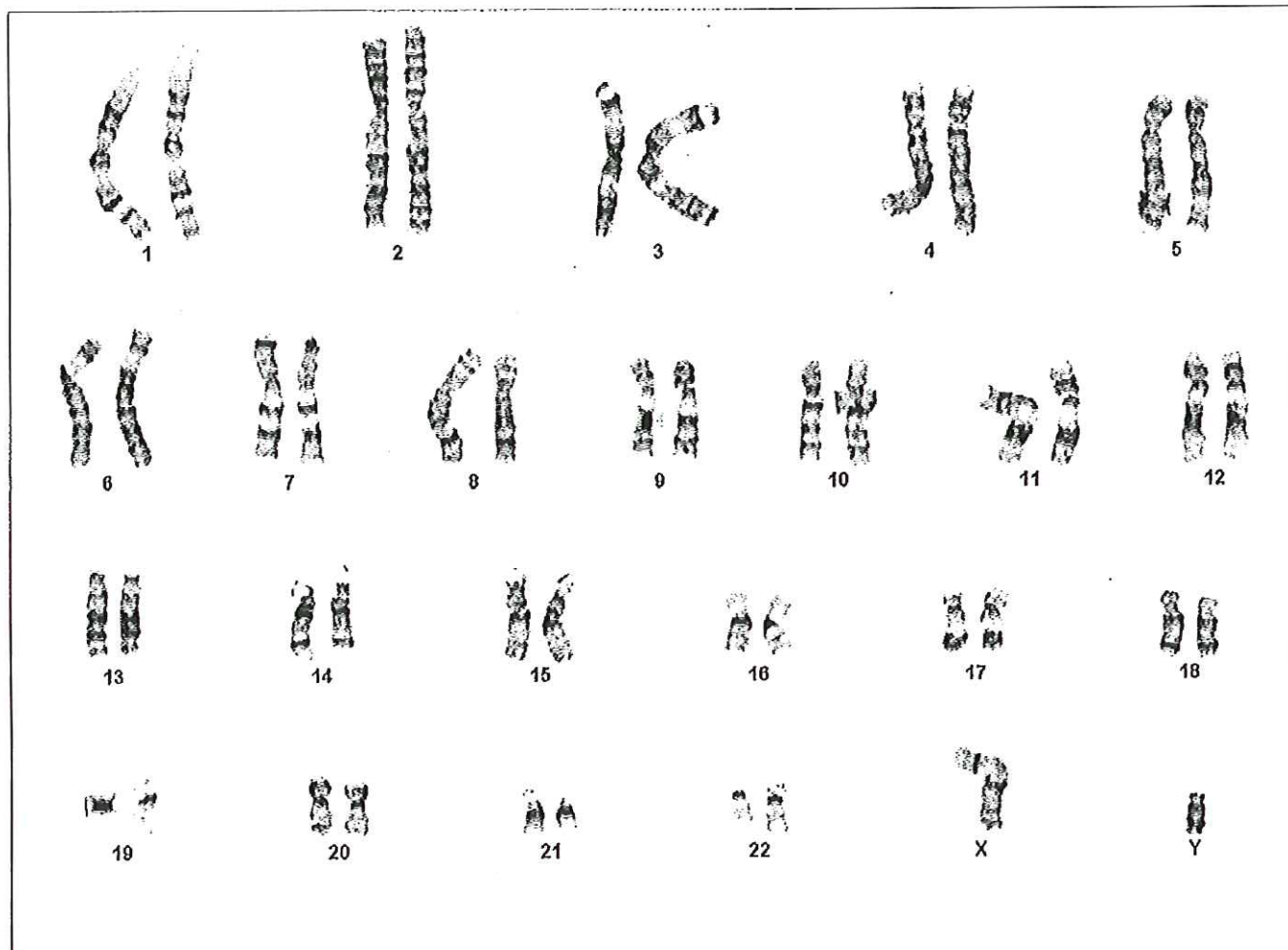
Genetics and IVF Preimplantation Genetics Laboratory

Patient name: DONOR # 4622

Case name: [REDACTED]

ENTERED  
12.2.14

46,XY



Case: 12-143CG Slide: A1 Cell: 7

