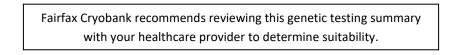


Donor 5243

Genetic Testing Summary



Last Updated: 08/14/18

Donor Reported Ancestry: African American

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 149 mutations in the CFTR gene	1/207
Spinal Muscular Atrophy (SMA) carrier screening	Negative for deletions of exon 7 in the SMN1 gene	1/121
Standard testing attached- 22 diseases by genotyping	Negative for mutations tested	

*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.



Carrier Map™

Tested

Ordering Practice:	Donor 5243	Partner Not			
Practice Code:	DOB:				
Fairfax Cryobank -	Gender: Male				
	Ethnicity:				
	Procedure ID: 50252				
Physician:	Kit Barcode:				
Report Generated: 2016-04-21	Specimen: Blood, #52803				
	Specimen Collection: 2016-04-12				
	Specimen Received: 2016-04-13				
	Specimen Analyzed: 2016-04-21				
	TEST INFORMATION				
	Test: CarrierMap ^{GEN} (Genotyping)				
	Panel: Fairfax Cryobank Panel V2				
	Diseases Tested: 22				
	Genes Tested: 22				
	Mutations Tested: 452				
SUMMARY OF RESULTS: N	O MUTATIONS IDENTIFIED				

Donor 5243 was not identified to carry any of the mutation(s) tested.

No pathogenic mutations were identified in the genes tested, reducing but not eliminating the chance to be a carrier for the associated genetic diseases. CarrierMap assesses carrier status for genetic disease via molecular methods including targeted mutation analysis and/ or next-generation sequencing; other methodologies such as CBC and hemoglobin electrophoresis for hemoglobinopathies and enzyme analysis for Tay-Sachs disease may further refine risks for these conditions. Results should be interpreted in the context of clinical findings, family history, and/or other testing. A list of all the diseases and mutations screened for is included at the end of the report. This test does not screen for every possible genetic disease.

For additional disease information, please visit recombine.com/diseases. To speak with a Genetic Counselor, call 855.OUR.GENES.

Assay performed by Reprogenetics CLIA ID: 31D1054821 3 Regent Street, Livingston, NJ 07039 Lab Technician: Bo Chu

Recombine CLIA # 31D2100763 Reviewed by Pere Colls, PhD, HCLD, Lab Director





ADDITIONAL RESULTS: NO INCREASED REPRODUCTIVE RISK

The following results are not associated with an increased reproductive risk.

Disease (Gene)	Donor 5243	Partner Not Tested
Spinal Muscular Atrophy: SMN1 Linked (SMN1)*	SMN1 Copy Number: 2 or more copies Method: qPCR & Genotyping	

*SMA Risk Information for Individuals with No Family History of SMA

	Detection Rate	Pre-Test Carrier Risk	Post-Test Carrier Risk (2 SMN1 copies)	Post-Test Carrier Risk (3 SMN1 copies)
European	95%	1/35	1/632	1/3,500
Ashkenazi Jewish	90%	1/41	1/350	1/4,000
Asian	93%	1/53	1/628	1/5,000
African American	71%	1/66	1/121	1/3,000
Hispanic	91%	1/117	1/1,061	1/11,000

For other unspecified ethnicities, post-test carrier risk is assumed to be <1%. For individuals with multiple ethnicities, it is recommended to use the most conservative risk estimate.



Methods and Limitations

Genotyping: Genotyping is performed using the Illumina Infinium Custom HD Genotyping assay to identify mutations in the genes tested. 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: Carrier status for SMA is assessed via copy number analysis by qPCR and via genotyping. Some individuals with a normal number of SMN1 copies (2 copies) may carry both copies of the gene on the same allele/chromosome; this analysis is not able to detect these individuals. Thus, a normal SMN1 result significantly reduces but does not eliminate the risk of being a carrier. Additionally, SMA may be caused by non-deletion mutations in the SMN1 gene; CarrierMap tests for some, but not all, of these mutations. Some SMA cases arise as the result of de novo mutation events which will not be detected by carrier testing.

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.

This test was developed and its performance determined by Recombine, Inc., and it has not been cleared or approved by the U.S. Food and Drug Administration (FDA). The FDA has determined that such clearance or approval is not necessary.



CarrierMap™

Diseases & Mutations Assayed

Alpha Thalassemia : Mutations (9): of Genotyping | SEA deletion, c.207C>A (p.N69K), c.223G>C (p.D75G), c.2T>C (p.M1T), c.207C>G (p.N69K), c.340_351 delCTCCCCGCCGAG (p.L114_E117del), c.377T>C (p.L126P), c.427T>C (p.X143Qext32), c.*+94A>G

Beta Thalassemia : Mutations (84): of Genotyping | c. 124_127delTTCT (p.F42Lfs), c.17_18delCT, c.20delA (p.E7Gfs), c.217insA (p.S73Kfs), c.223+702_444+342del620insAAGTAGA, c.230delC, c.25_2ddelAA, c.315+1G>A, c.315+27>C, c.316-197C7T, c.316-1467>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.K 18Rfs), 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.78a>g, c.79a>g, c.81a>g, c.52A>T (p.K18X), c.137c>g, c.138c>t, c.151<t, c.118C>T (p.Q40X), c.169G>C (p.G57R), c.295G>A (p.V99M), c.34G>A (p.V121), c.415G>C (p.A139P), c.47G>A (p.W16X), c.48G>A (p.W16X), c.80Þa, c.21>C (p.M11T), c.75T>A (p.G25G), c.444+111A>G, c.29g>a, c.68_74delAAGTTGG, c.92G>C (p.R31T), c.27_28insG, c.92+1G>T, c.92+1G>C, c.93-15T>G, c.93-1G>C, c.112delT, c.113G>A (p.W38X), c.114G>A (p.W38X), c.126delC, c.444+113A>G, c.250delG, c.225delC, c.383_385delAGG (p.Q128A 129delQAinsP), c.321_322insG (p.N109fs), c.316-1G>T, c.316-2A>C, c.287_288insA (p.197fs), c.271G>T (p.E91X), c.203_204delTG (p.V68Afs), c.154delC (p.P52fs), c.135delC (p.F46fs), c.92+12A, c.92+21>C, c.90-7T (p.G300G), c.84_85insC (p.129fs), c.59A>G (p.N120S), c.46delT (p.W16Gfs), c.4_46insG (p.L165s), c.36delT (p.T13fs), c.2T>G (p.M1R), c.1A>G (p.M1V), c.-137c>t, c.136c>g, c.-142c>t, c.-140c>t

Bloom Syndrome : Mutations (24): of 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.C645X), c.2528C>T (p.T843I), c.2695C>T (p.R899X), c.3107G>T (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.3554delC (p.1188Dfs), c.4008delG (p.1336Kfs), c.947C>G (p.S316X), c.2193+1_2193+9del9, c.1642C>T (p.G548X), c.3143delA (p.1048NfsX), c.355_357delTA (p.C120Hfs), c.4076+1delG, c.3281C>A (p.S1094X)

Canavan Disease : Mutations (8): ♂⁸ Genotyping | c.433-2A>G, c.854A>C (p.E285A), c.693C>A (p.Y231X), c.914C>A (p.A305E), c.71A>G (p.E24G), c.654C>A (p.C218X), c.2T>C (p.M1T), c.79G>A (p.G27R)

Cystic Fibrosis : Mutations (149): o^a Genotyping | c.1029delC, 1153_1154insAT, c.1477delCA, 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. 1818del84, c. 1911delG, c. 1923delCTCAAAACTinsA,

c. 1973delGAAATTCAATCCTinsAGAAA, 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+12191 C>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.1269fs), c.933_935delCTT (p.311 delF), c.946delT, c.1645A>C (p.S549R), c.2128A>T (p.K710X), c.1000C>T (p.R334W), c.1013C>T (p.T338I), c.1364C>A (p.A455E), c.1477C>T (p.Q493X), c.1572C>A (p.C524X), c.1654C>T (p.Q552X), c.1657C>T (p.R553X), c.1721C>A (p.P574H), c.2125C>T (p.R709X), c.223C>T (p.R75X), c.2668C>T (p.Q890X), c.3196C>T (p.R1066C), c.3276C>G (p.Y1092X), c.3472C/T (p.R1158X), c.3484C/T (p.R1162X), c.349C/T (p.R117C), c.3587C/G (p.S1196X), c.3712C/T (p.Q1238X), c.3764OA (p.S1255X), c.3909OG (p.N1303K), c.1040G>A (p.R347H), c.1040G>C (p.R347P), c.1438G>T (p.G480C), c.1558G>T (p.V520F), c.1624G>T (p.G542X), c.1646G>A (p.S549N), c.1646G>T (p.S549I), c.1652G>A (p.G551D), c.1675G>A (p.A559T), c.1679G>C (p.R560T), c. 178G>T (p.E60X), c. 1865G>A (p.G622D), c.254G>A (p.G85E), c.271G>A (p.G91R), c.274G>T (p.E92X), c.3209G>A (p.R1070Q), c.3266G>A (p.W1089X), c.3454G>C (p.D1152H), c.350G>A (p.R117H), c.3611G>A (p.W1204X), c.3752G>A (p.S1251N), c.3846G>A (p.W1282X), c.3848G>T (p.R1283M), c.532G>A (p.G178R), c.988G>T (p.G330X), c.1090T>C (p.S364P), c.3302T>A (p.M1101K), c.617T>G (p.L206W), c.14C>T (p.P5L), c.19G>T (p.E7X), c.171G>A (p.W57X), c.313delA (p.1105fs), c.328G>C (p.D110H), c.580-1G>T, c.1055G>A (p.R352Q), c.1075C>A (p.Q359K), c.1079C>A (p.T360K), c.1647T>G (p.S549R), c.1976delA (p.N659fs), c.2290C>T (p.R764X), c.2737_2738insG (p.Y913X), c.3067_3072delATAGTG (p.I1023_V1024delT), c.3536_3539delCCAA (p.T1179fs), c.3659delC (p.T1220fs), c.54-5940_273+10250del21080bp (p.S18fs), c.4056G>C (p.Q1352H), c.4364C>G (p.S1455X), c.4003C>T (p.L1335F), c.2538G>A (p.W846X), c.200CT (p.P67L), c.4426CT (p.Q1476X), c.1116+1G>A, c.1986_1989delAACT (p.T663R), c.2089_2090insA (p.R697Kfs), c.2215delG (p.V739Y), c.263T>G (p.L196X), c.3022delG (p.V1008S), c.3908dupA (p.N1303Kfs), c.658C>T (p.Q220X), c.868C>T (p.Q290X), c.1526delG (p.G509fs), c.2908+1085-3367+260del7201, c.11C>A (p.S4X), c.3700A>G (p.11234V), c.416A>T (p.H139L), c.366T>A (p.Y122X), c.3767_3768insC (p.A1256fs), c.613C>T (p.P205S), c.293A>G (p.Q98R), c.3731G>A (p.G1244E), c.535C>A (p.Q179K), c.3368-2A>G, c.455T>G (p.M152R), c.1610_1611 delAC (p.D537fs), c.3254A>G (p.H1085R), c.496A>G (p.K166E), c.1408_1417delGTGATTATGG (p.V470fs), c.1585-8G>A, c.2909G>A (p.G970D), c.653T>A (p.L218X), c.1175T>G (p.V392G), c.3139_3139+1delGG

Familial Dysautonomia : Mutations (4): 0^a Genotyping | c.2204+6T>C, c.2741C>T (p.P914L), c.2087G>C (p.R696P), c.2128C>T (p.Q710X)

Familial Hyperinsulinism: Type 1: ABCC8 Related : Mutations (10): of Genotyping | c.3989-9G>A, c.4159_4161delTTC (p.1387delF), c.4258C>T (p.R1420C), c.4477C>T (p.R1493W), c.2147G>T (p.G716V), c.4055G>C (p.R1352P), c.560T>A (p.V187D), c.4516G>A (p.E1506K), c.2506C>T (p.Q836K), c.579+2T>A

Fanconi Anemia: Type C : Mutations (8): of Genotyping | c.456+4A>T, c.67delG, c.37C>T (p.Q.13X), c.553C>T (p.R.185X), c.1661T>C (p.L554P), c.1642C>T (p.R548X), c.66G>A (p.W22X), c.65G>A (p.W22X)

Gaucher Disease : Mutations (6): of Genotyping | c.84_85insG, c.1226A>G (p.N409S), c.1343A>T

(p.D448V), c.1504C>T (p.R502C), c.1297G>T (p.V433L), c.1604G>A (p.R535H)

Glycogen Storage Disease: Type IA : Mutations (13): d^{*} Genotyping | c.376_377insTA, c.79delC, c.979_981delTTC (p.327delF), c.1039C>T (p.Q347X), c.247C>T (p.R83C), c.724C>T (p.Q242X), c.248G>A (p.R83H), c.562G>C (p.G188R), c.648G>T, c.809G>T (p.G270V), c.113A>T (p.D38V), c.975delG (p.L326fs), c.724delC

Joubert Syndrome : Mutations (2): O^{*} Genotyping | c.218G>T (p.R73L), c.218G>A (p.R73H)

Maple Syrup Urine Disease: Type 1B : Mutations (6): d^a Genotyping | c.1114G>T (p.E372X), c.548G>C (p.R183P), c.832G>A (p.G278S), c.970C>T (p.R324X), c.487G>T (p.E163X), c.853C>T (p.R285X)

Maple Syrup Urine Disease: Type 3 : Mutations (8): 0^a Genotyping | c.104_105insA, c.685G>T (p.G229C), c.214A>G (p.K72E), c.1081A>G (p.M361V), c.1123G>A (p.E375K), c.1178T>C (p.I393T), c.1463C>T (p.P488L), c.1483A>G (p.R495G)

Mucolipidosis: Type IV : Mutations (5): of Genotyping | c.-1015_788del6433, c.406-2A>G, c.1084G>T (p.D362Y), c.304C>T (p.R102X), c.244delC (p.182fsX)

Nemaline Myopathy: NEB Related : Mutations (1): d³ Genotyping | c.7434_7536del2502bp Niemann-Pick Disease: Type A : Mutations (6): d³ Genotyping | c.996delC, c.1493G>T (p.R498L), c.911T>C (p.L304P), c.1267C>T (p.H423Y), c.1734G>C (p.K578N), c.1493G>A (p.R498H)

Sickle-Cell Anemia : Mutations (1): d^a Genotyping | c.20A>T (p.E7V)

Spinal Muscular Atrophy: SMN1 Linked : Mutations (19): d³ 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 qPCR | DEL EXON 7

Tay-Sachs Disease : Mutations (76): O^{*} Genotyping | c. 1073+1G>A, c. 1277_1278insTATC, c.1421+1G>C, c.805+1G>A, c.532C>T (p.R178C), c.533G>A (p.R178H), c.805G>A (p.G269S), c.1510C>T (p.R504C), c.1496G>A (p.R499H), c.509G>A (p.R170Q), c.1003A>T (p.I335F), c.910_912delTTC (p.305delF), c.749G>A (p.G250D), c.632T>C (p.F211S), c.629C>T (p.S210F), c.613delC, c.611A>G (p.H204R), c.598G>A (p.V200M), c.590A>C (p.K197T), c.571-1G>T, c.540C>G (p.Y180X), c.538T>C (p.Y180H), c.533G>T (p.R178L), c.508C>T (p.R170W), c.409C>T (p.R137X), c.380T>G (p.L127R), c.346+1G>C, c.116T>G (p.L39R), c.78G>A (p.W26X), c.1A>G (p.M1V), c.1495C>T (p.R499C), c.459+5G>A (IVS4+5G>A), c.1422-2A>G, c.535C>T (p.H179Y), c.1141 delG (p.V381fs), c.796T>G (p.W266G), c.155C>A (p.S52X), c.426delT (p.F142fs), c.413-2A>G, c.570+3A>G, c.536A>G (p.H179R), c.1146+1G>A, c.736G>A (p.A246T), c.1302C>G (p.F434L), c.778C>T (p.P260S), c.1008G>T (p.Q336H), c.1385A>T (p.E462V), c.964G>A (p.D322N), c.340G>A (p.E114K), c.1432G>A (p.G478R), c.1178G>C (p.R393P), c.805+1G>C, c.1426A>T (p.R476X), c.623A>T (p.D208V), c.1537C>T (p.Q513X), c.1511G>T (p.R504L), c.1307_1308delTA (p.1436fs), c.571-8A>G, c.624_627delTCCT (p.D208fs), c.1211_1212delTG (p.L404fs), c.621T>G (p.D207E), c.1511G>A (p.R504H), c.1177C>T (p.R393X), c.2T>C (p.M1T), c.1292G>A (p.W431X), c.947_948insA (p.Y316fs), c.607T>G (p.W203G), c.1061_1063delTCT (p.F354_Y355delinsX), c.615delG (p.L205fs), c.805+2T>C, c.1123delG (p.E375fs), c.1121 A>G (p.Q374R), c.1043_1046delTCAA (p.F348fs), c.1510delC (p.R504fs), c.1451 T>C (p.L484P), c.964G>T (p.D322Y)

Usher Syndrome: Type 1F : Mutations (7): d^{*} Genotyping | c.733CT (p.R245X), c.2067CA (p.Y684X), c.7CT (p.R3X), c.1942CT (p.R648X), c.1101 delT (p.A367fsX), c.2800CT (p.R934X), c.4272 delA (p.L1425fs)

Usher Syndrome: Type 3 : Mutations (5): 0^a Genotyping | c.144T>G (p.N48K), c.359T>A (p.M120K), c.300T>G (p.Y176X), c.634C>T (p.Q212X), c.221T>C (p.L74P)

Walker-Warburg Syndrome : Mutations (1): O[®] Genotyping | c. 1167insA (p.F390fs)



CarrierMap™

Residual Risk Information

Detection rates are calculated from the primary literature and may not be available for all ethnic populations. Sequencing detection rates and residual risks are reported as "greater than (>)" and "less than (<)" the values for genotyping, respectively, for each disease. More precise values may become available in the future.

Disease	Carrier Rate	Detection Rate	Residual Risk	
Alpha Thalassemia	♂ General: 1/48	50.67%	1/97	
Beta Thalassemia	o" African American: 1/75	84.21%	1/475	
	ơ" Indian: 1/24	74.12%	1/93	
	o" Sardinians: 1/23	97.14%	1/804	
	o" Spaniard: 1/51	93.10%	1/739	
Bloom Syndrome	o" Ashkenazi Jewish: 1/134	96.67%	1/4,020	
	ơ ⁷ European: Unknown	66.22%	Unknown	
	o ⁷ Japanese: Unknown	50.00%	Unknown	Usher Syndrom
Canavan Disease	o ^a Ashkenazi Jewish: 1/55	98.86%	1/4,840	Usher Syndrom
	ơ [*] European: Unknown	53.23%	Unknown	
Cystic Fibrosis	ơ" African American: 1/62	69.99%	1/207	Walker-Warbu
	o ^a Ashkenazi Jewish: 1/23	96.81%	1/721	
	0" Asian: 1/94	66.40%	1/280	
	o" European: 1/25	94.96%	1/496	
	o" Hispanic American: 1/48	77.32%	1/212	
	o" Native American: 1/53	84.34%	1/338	
Familial Dysautonomia	o" Ashkenazi Jewish: 1/31	>99%	<1/3,100	
Familial Hyperinsulinism: Type 1: ABCC8 Related	♂ Ashkenazi Jewish: 1/52	98.75%	1/4,160	
	o" Finnish: 1/101	45.16%	1/184	
Fanconi Anemia: Type C	o" Ashkenazi Jewish: 1/101	>99%	<1/10,100	
	o" General: Unknown	30.00%	Unknown	
Gaucher Disease	o" Ashkenazi Jewish: 1/15	87.16%	1/117	
	ð" General: 1/112	31.60%	1/164	
	o" Spaniard: Unknown	44.29%	Unknown	
	o ^a Turkish: 1/236	59.38%	1/581	
Glycogen Storage Disease: Type IA	o" Ashkenazi Jewish: 1/71	>99%	<1/7,100	
	o" Chinese: 1/159	80.00%	1/795	
	ð [•] European: 1/177	76.88%	1/765	
	o" Hispanic American: 1∕177	27.78%	1/245	
	ð ^a Japanese: 1/177	89.22%	1/1,641	
Joubert Syndrome	ð" Ashkenazi Jewish: 1/92	>99%	<1/9,200	
Maple Syrup Urine Disease: Type 1B	o ^a Ashkenazi Jewish: 1/97	>99%	<1/9,700	
Maple Syrup Urine Disease: Type 3	o" Ashkenazi Jewish: 1/94	>99%	<1/9,400	
	o" General: Unknown	68.75%	Unknown	
Mucolipidosis: Type IV	♂ [*] Ashkenazi Jewish: 1/97	96.15%	1/2,522	
Nemaline Myopathy: NEB Related	♂ [*] Ashkenazi Jewish: 1/108	>99%	<1/10,800	
Niemann-Pick Disease: Type A	♂ [*] Ashkenazi Jewish: 1/101	95.00%	1/2,020	

Disease	Carrier Rate	Detection Rate	Residual Risk
Sickle-Cell Anemia	o" African American: 1/10	>99%	<1/1,000
	o ^a Hispanic American: 1/95	>99%	<1/9,500
Tay-Sachs Disease	o" Argentinian: 1/280	82.35%	1/1,587
	o" Ashkenazi Jewish: 1/29	99.53%	1/6,177
	o" Cajun: 1/30	>99%	<1/3,000
	o" European: 1/280	25.35%	1/375
	o' General: 1/280	32.09%	1/412
	o" Indian: Unknown	85.71%	Unknown
	ơ" Iraqi Jewish: 1/140	56.25%	1/320
	o ^a Japanese: 1/127	82.81%	1/739
	o" Moroccan Jewish: 1/110	22.22%	1/141
	o ^a Portuguese: 1/280	92.31%	1/3,640
	o" Spaniard: 1/280	67.65%	1/865
	o ^a United Kingdom: 1/161	71.43%	1/564
Usher Syndrome: Type 1F	o" Ashkenazi Jewish: 1/126	93.75%	1/2,016
Usher Syndrome: Type 3	o" Ashkenazi Jewish: 1/120	>99%	<1/12,000
	o " Finnish: 1/134	>99%	<1/13,400
Walker-Warburg Syndrome	o" Ashkenazi Jewish: 1/150	>99%	<1/15,000