HISTOGENETICS

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ASHI # 03-1-NY-26-2. CLIA # 33D0985173
Soo Young Yang Ph.D / Nezih Cereb M.D., Directors
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HLA TYPING REPORT

Patient Information

Last Name	: **Borden-Moskowitz**	Date Of Birth :	10-Sep-1966
First Name	: **Dana**	Histo ID :	H84704
Hospital	: Ochsner Medical Center	MR# :	12001115
Physician	: Dr. Cooper		
Diagnosis	: Bone Marrow	Received On :	24-Dec-2019
Specimen Type	: Whole Blood	Collected On :	20-Dec-2019

A*	B*	C*	DRB1*	DRB345*	DQB1*	DQA1*	DPB1*	DPA1*
01:01:01G	08:01:01G	03:03:01G	03:01:01G	DRB3*01:01:02G	02:01:01G	NA	01:01:01G	NA
03:01:01G	15:01:01G	07:01:01G	04:04:01	DRB4*01:03:01	03:02:01G	NA	04:01:01G	NA

Typing Status : Complete

Null Allele Resolution Status : A*01:04:01:01N,A*01:04:01:02N,A*01:22N,A*01:56N,A*01:87N,A*03:01:01:02N,A*03:21N,A*03:129N,A*03:162N,A*03:279N,A*03:336N,B*08:19N,B*08:236N,B*15:01:01:02N,B*15:483N,C*03:380N,C*03:432N,C*07:796N,C*07:808N,DQB1*02:96N,DQB1*03:310N,DPB1*754:01N,DPB1*756:01N,DPB1*800:01N,DPB1*862:01N,DPB1*974:01N,DRB4*01:03:01:02N excluded

Note:

1. **Match ratio to Patient: Based on protein level in ARS (Exon 2 and 3 for Class I, Exon 2 for Class II).**

2. **Allele Database Version : 3.37.0 (Jul 2019)**

3. **Allele bearing suffix G : The first allele of the Included Alleles. Included alleles in the appendix**

4. **NMDP code is reported if G code is not available after analyzing non-ARS exons**

5. **Sequencing Technology : Illumina Sequencing**

6. **Reagent Information : Lot Number available upon request.**

Report History

Reported Date	History	Comments
31-Dec-2019	Patient: Dana	

DIRECTOR / ASSOCIATE DIRECTOR _Nezih Cereb_

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HLA TYPING REPORT - APPENDIX

Locus	G Code	NMDP Allele Code	Segment Sequenced	Included Alleles

Sample ID : H84704

Locus	G Code	NMDP Allele Code	Segment Sequenced	Included Alleles
A	01:01:01G	01:CAVHH	Exon 1,2,3,4	01:01:01:01/01:01:01:02N/01:01:01:03/01:01:01:04/01:01:01:05/ 01:01:01:06/01:01:01:07/01:01:01:08/01:01:01:09/01:01:01:10/ 01:01:01:11/01:01:01:12/01:01:01:13/01:01:01:14/01:01:01:15/ 01:01:01:16/01:01:01:17/01:01:01:18/01:01:01:19/01:01:01:20/ 01:01:01:21/01:01:01:22/01:01:01:23/01:01:01:24/01:01:01:25/ 01:01:83/01:01:84/01:01:93/01:01:94/01:01:104/01:01:105/ 01:248Q/01:251/01:252/01:276/01:277/01:280/01:300/01:309/01:317
A	03:01:01G	03:CAVHX	Exon 1,2,3,4	03:01:01:01/03:01:01:03/03:01:01:04/03:01:01:05/03:01:01:06/ 03:01:01:07/03:01:01:08/03:01:01:09/03:01:01:10/03:01:01:11/ 03:01:01:12/03:01:01:13/03:01:01:14/03:01:01:15/03:01:01:16/ 03:01:01:17/03:01:01:18/03:01:01:19/03:01:01:20/03:01:01:21/ 03:01:01:22/03:01:01:23/03:01:01:24/03:01:01:25/03:01:01:26/ 03:01:70/03:01:71/03:01:74/03:01:75/03:01:81/03:01:84/03:291/ 03:292/03:293/03:301/03:313/03:315/03:338/03:344/03:346/ 03:352/03:359/03:361/03:363/03:367
B	08:01:01G	08:CAVKR	Exon 2,3,4	08:01:01:01/08:01:01:02/08:01:01:03/08:01:01:04/08:01:01:05/ 08:01:01:06/08:01:01:07/08:01:01:08/08:01:01:09/08:01:01:10/ 08:01:01:11/08:01:01:12/08:01:01:13/08:01:01:14/08:01:01:15/ 08:01:01:16/08:01:20/08:01:38/08:01:41/08:01:43/08:01:46/ 08:01:51/08:01:52/08:01:54/08:173/08:182/08:183/08:207/08:221/ 08:222/08:225/08:233/08:238/08:241/08:244
B	15:01:01G	15:CAVKV	Exon 2,3,4	15:01:01:01/15:01:01:03/15:01:01:04/15:01:01:05/15:01:01:06/ 15:01:01:07/15:01:01:08/15:01:01:09/15:01:01:10/15:01:01:11/ 15:01:01:12/15:01:01:13/15:01:01:14/15:01:01:15/15:01:01:16/ 15:01:01:17/15:01:01:18/15:01:01:19/15:01:01:20/15:01:48/ 15:01:58/15:443/15:456/15:457/15:464/15:465/15:471/15:474/ 15:476/15:515/15:533/15:535/15:536/15:542/15:547
C	03:03:01G	03:CAVNH	Exon 2,3,4,7	03:03:01:01/03:03:01:02/03:03:01:03/03:03:01:04/03:03:01:05/ 03:03:01:06/03:03:01:07/03:03:01:08/03:03:01:09/03:03:01:10/ 03:03:01:11/03:03:01:12/03:03:01:13/03:03:01:14/03:03:36/ 03:03:46/03:03:53/03:20N/03:227/03:341/03:357/03:383/03:418/ 03:421N/03:471/03:481
C	07:01:01G	07:CAVPC	Exon 2,3,4,7	07:01:01:01/07:01:01:02/07:01:01:03/07:01:01:04/07:01:01:05/ 07:01:01:06/07:01:01:07/07:01:01:08/07:01:01:09/07:01:01:10/ 07:01:01:11/07:01:01:12/07:01:01:13/07:01:01:14Q/07:01:01:15/ 07:01:01:16/07:01:01:17/07:01:01:18/07:01:01:19/07:01:01:20/ 07:01:01:21/07:01:01:22/07:01:01:23/07:01:01:24/07:01:01:25/ 07:01:01:26/07:01:01:27/07:01:01:28/07:01:01:29/07:01:02:01/ 07:01:02:02/07:01:02:03/07:01:77/07:01:79/07:01:80/07:01:81/ 07:01:85/07:06:01:01/07:06:01:02/07:18:01:01/07:18:01:02/ 07:18:01:03/07:343:01:01/07:343:01:02/07:419/07:591/07:610/ 07:617/07:618/07:657/07:687/07:696/07:721/07:732/07:762/ 07:777/07:782/07:805/07:814

HLA TYPING REPORT - APPENDIX

Locus	G Code	NMDP Allele Code	Segment Sequenced	Included Alleles
DPB1	01:01:01G	01:AETTG	Exon 2,3	01:01:01:01/01:01:01:02/01:01:01:03/01:01:01:04/01:01:01:05/ 01:01:01:06/01:01:01:07/01:01:01:08/01:01:01:09/01:01:01:10/ 162:01:02/417:01:01
DPB1	04:01:01G	04:CAVRP	Exon 2,3	04:01:01:01/04:01:01:02/04:01:01:03/04:01:01:04/04:01:01:05/ 04:01:01:06/04:01:01:07/04:01:01:08/04:01:01:09/04:01:01:10/ 04:01:01:11/04:01:01:12/04:01:01:13/04:01:01:14/04:01:01:15/ 04:01:01:16/04:01:01:17/04:01:01:18/04:01:01:19/04:01:01:20/ 04:01:01:21/04:01:01:22/04:01:01:23/04:01:01:24N/04:01:01:25/ 04:01:01:26/04:01:01:27/04:01:01:28/04:01:01:29/04:01:01:30/ 04:01:01:31/04:01:01:32/04:01:01:33/04:01:01:34/04:01:01:35/ 04:01:41/350:01/670:01/702:01/849:01/878:01N/939:01N/1001:01
DQB1	02:01:01G	02:CAVSZ	Exon 2,3	02:01:01/02:109/02:112/02:148
DQB1	03:02:01G	03:CAVTB	Exon 2,3	03:02:01:01/03:02:01:02/03:02:01:03/03:02:01:04/03:02:01:05/ 03:02:01:06/03:02:01:07/03:02:01:08/03:02:26/03:289/03:295/ 03:296/03:321/03:369/03:379/03:386
DRB1	03:01:01G	03:RPXT	Exon 2,3	03:01:01:01/03:01:01:02/03:01:01:03/03:147
DRB1	04:04:01		Exon 2,3	
DRB3	01:01:02G	01:BZFC	Exon 2,3	01:01:02:01/01:01:02:02/01:01:02:03/01:01:02:04/01:01:02:05/ 01:62
DRB4	01:03:01	01:03:01	Exon 2,3	01:03:01:01/01:03:01:03/01:03:01:04/01:03:01:05/01:03:01:06/ 01:03:01:07/01:03:01:08/01:03:01:09/01:03:01:10/01:03:01:11/ 01:03:01:12