

A composite image showing a winding asphalt road through a mountainous landscape at night. The sky is filled with the vibrant colors of the Milky Way galaxy, transitioning from purple and blue at the top to yellow and orange near the horizon. The mountains are rugged, with some rocky outcrops and sparse vegetation. The road curves into the distance, leading the viewer's eye towards the horizon.

# Seeing Beyond Limits

## LIFECODES® HLA-SSO Typing

**Immucor's fast, easy and accurate approach to HLA Typing**

At Immucor, we are committed to deliver quality products that improve your laboratory's operations while also providing trusted results. Our HLA-SSO typing kits and MATCH IT!® DNA Typing Software offer speed and accuracy with a simplified approach using Luminex® xMAP® technology.



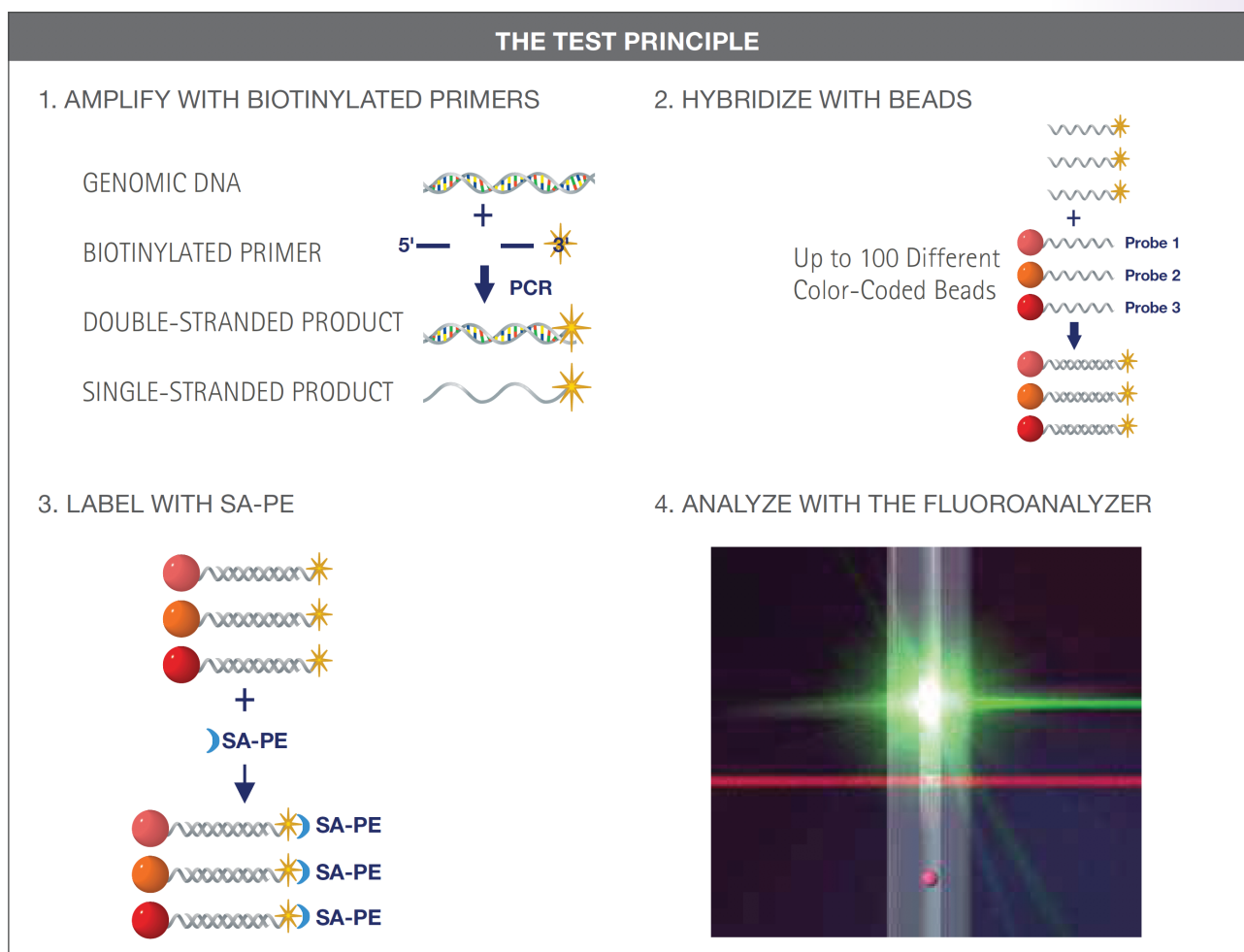


## LIFECODES® SSO Typing Results in 2 hours!

LIFECODES SSO Typing kits offer short turn around time for use with deceased donors, a faster protocol for high volume laboratories, and a RAPID protocol to increase productivity in the HLA Laboratory.

- Simple 5 component kit configuration with a simple 3 step protocol
- LIFECODES Taq polymerase validated and included in kit
- HLA-A eRES, HLA-B eRES and HLA-DRB1 eRES kits contain a second bead mix for Enhanced Resolution
- Powered by Luminex® xMAP® Technology
- Analysis software automatically imports data from the Luminex® software

LIFECODES HLA-SSO Typing kits utilize sequence-specific oligonucleotides (SSOs) to identify which human leukocyte antigen (HLA) alleles are present in a PCR-amplified sample.



# HLA Genotyping

Easy to  
Automate  
for High  
Throughput

Results in **two hours**.

**NO** centrifugation or wash  
**steps** – reducing overall  
hands on time.

Master mix includes primers,  
dNTP's and PCR buffer –  
eliminating extra steps  
and consumables.

**Automatic import** of data  
into MATCH IT!® software –  
allowing for clear and easy  
to interpret results.



## Ordering Information

| Description                                  | Catalog Number | Quantity         |
|----------------------------------------------|----------------|------------------|
| LIFECODES HLA-A eRES SSO Typing Kit (IVD)    | 628913         | 50 tests         |
| LIFECODES HLA-B eRES SSO Typing Kit (IVD)    | 628917         | 50 tests         |
| LIFECODES HLA-C eRES SSO Typing Kit (IVD)    | 628921         | 50 tests         |
| LIFECODES HLA-DRB1 eRES SSO Typing Kit (IVD) | 628925         | 50 tests         |
| LIFECODES HLA-DRB 3,4,5 SSO Typing Kit (IVD) | 628927         | 50 tests         |
| LIFECODES HLA-DQA1/B1 SSO Typing Kit (IVD)   | 628930         | 50 tests         |
| LIFECODES HLA-DPA1/B1 SSO Typing Kit (IVD)   | 628936         | 50 tests         |
| Streptavidin-PE                              | 628511         | 1 mg/ml (85µL)   |
| LIFECODES Taq Polymerase (IVD)               | 628075         | 125 units (25µL) |





# LIFECODES®

## LIFECODES® KIR

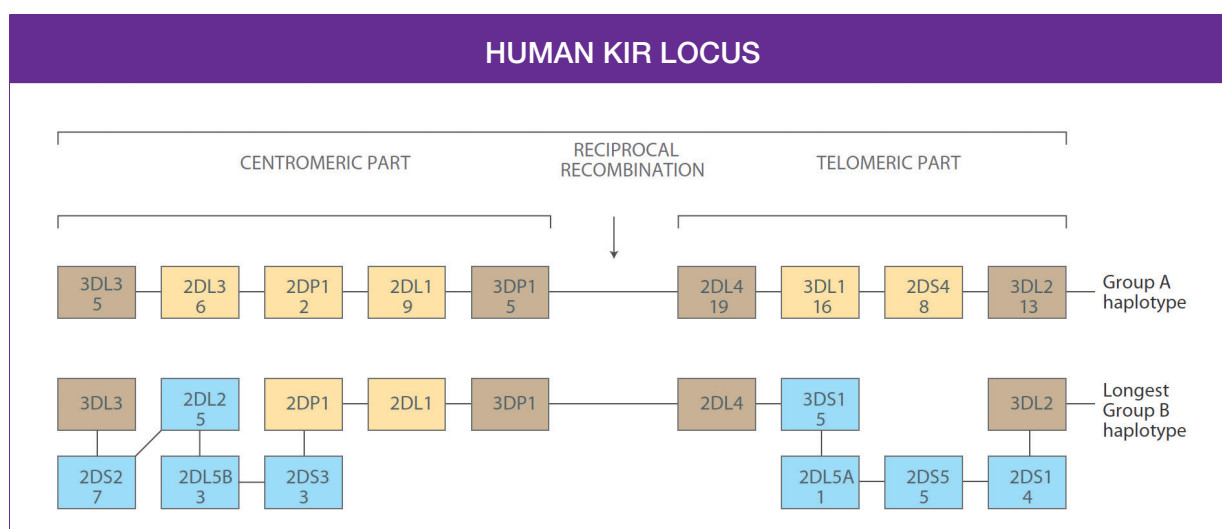
Natural killer (NK) cells are lymphocytes of the innate immune system that fight infection by producing cytokines and killing infected cells. Their functional activity is regulated by the interaction between their surface killer cell immunoglobulin-like receptors (KIR) and Class I HLA alleles expressed on the target cell. NK cells will contain more than one type of KIR on their surface and these receptors can be either inhibitory or activating in nature.

There are 14 KIR genes and two pseudogenes located in the leukocyte receptor complex (LRC) on chromosome 19q13.4. Human NK cells express various combinations of these 16 KIR genes with two common haplotypes: Group A, which has more inhibitory receptors and Group B, which has more activating receptors.

| Description                                                                              | Catalog Number | Quantity         |
|------------------------------------------------------------------------------------------|----------------|------------------|
| LIFECODES KIR Typing Kit<br>For Research Use Only. Not for Use in Diagnostic Procedures. | 545110R        | 20 tests         |
| LIFECODES Taq Polymerase General Purpose Reagent                                         | 628076         | 125 units (25µL) |

## Organization of the Human KIR Locus

The LIFECODES KIR SSO Typing kits utilize sequence-specific oligonucleotides (SSOs) to identify which KIR loci are present in a PCR amplified sample.



Conserved genes are shown in **brown**.

Genes that can be present in both group A and group B KIR haplotypes are shown in **yellow**.

Genes and/or alleles that are specific to group B KIR haplotypes are shown in **blue**.



# MATCH IT!<sup>®</sup> DNA

Introducing **MATCH IT! DNA**, a software designed specifically for streamlined HLA Typing analysis with faster import times than ever before.

Recent **Performance Optimizations** have reduced import time by 70%\*.

The MATCH IT!<sup>®</sup>DNA software was designed specifically as an accessory to assist in the evaluation of test results from the LIFECODES HLA SSO portfolio.

## Easy to use Analysis Software

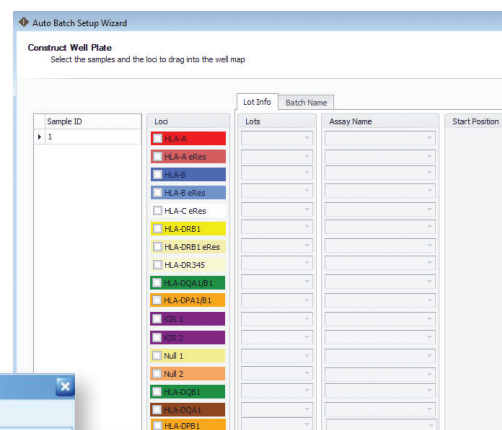
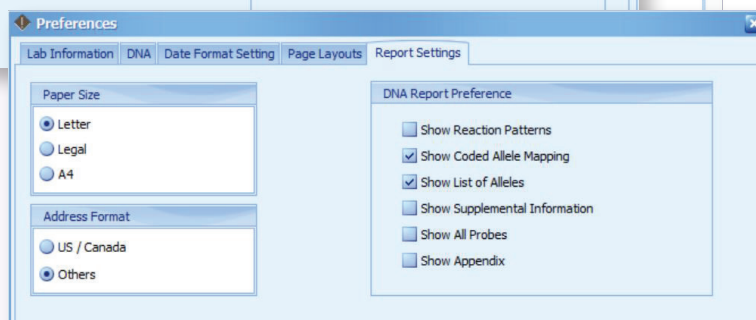
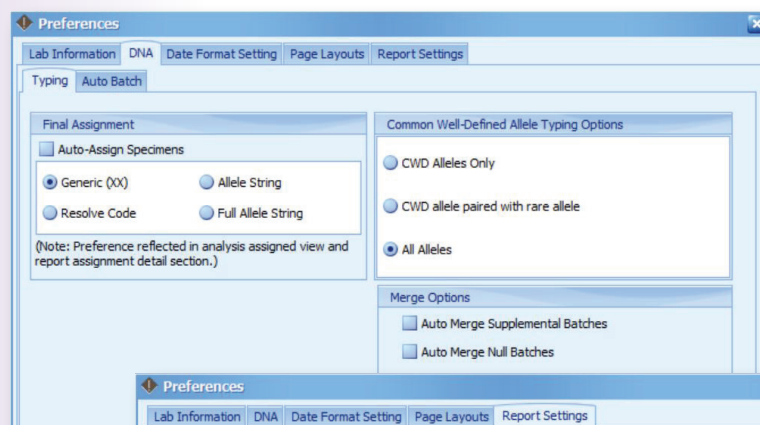
- Probe highlighting for easy review
- CIWD 3.0 list used to highlight Common and Intermediate alleles.
- Multiple Probe Graphing features
- Automatic import of Luminex data
- Options for server based or local database installation
- Remote support provided by Immucor support teams
- Multiple custom utilities available to manage import of data into various LIS



## ● ASSISTIVE

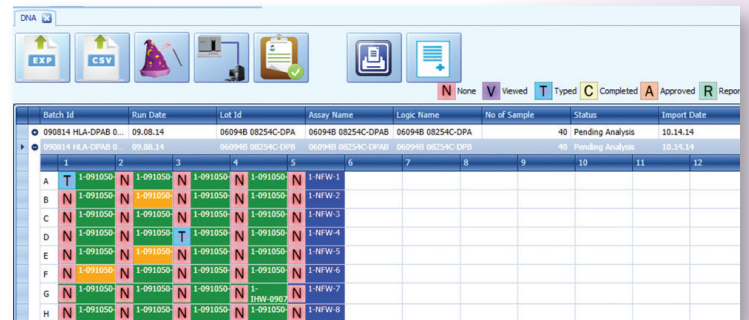
**CUSTOMIZABLE** assignment options, page layouts, and reports fit everyone's needs!

**AUTO BATCH WIZARD** streamlines batch set up for all loci in a simple to use tool!



\*Average percent reduction of internal results during development of v1.3.1.

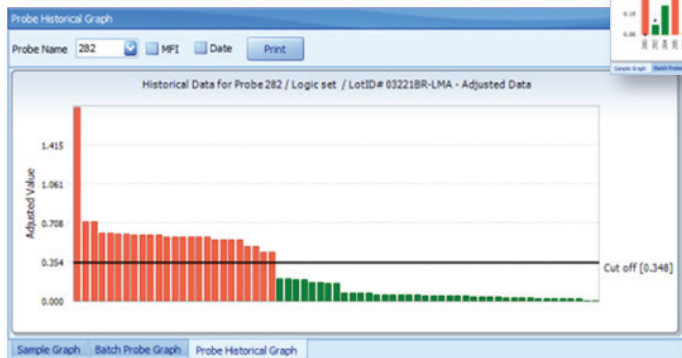
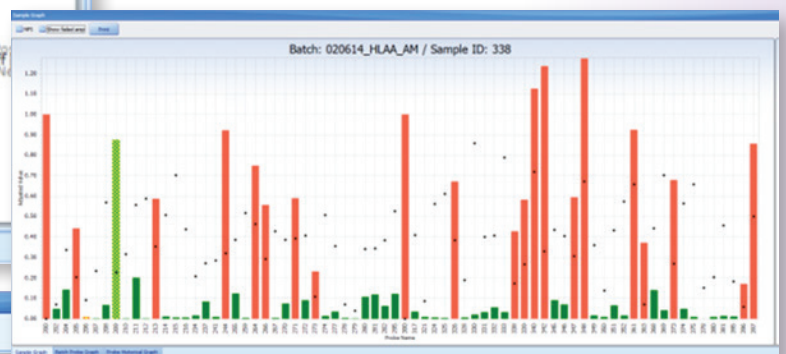
Snapshot Summary provides the user with a summarized view of all typings of samples for a chosen batch.



| Sample ID    | Well... | Match Type | Final Typing AG1 | Final Typing AG2 | Serology AG1 | Serology AG2 | Comment | <input checked="" type="checkbox"/> Complete | Completed By   | Completed Date | <input checked="" type="checkbox"/> Approve | Approved By    | Approved Date |
|--------------|---------|------------|------------------|------------------|--------------|--------------|---------|----------------------------------------------|----------------|----------------|---------------------------------------------|----------------|---------------|
| B-091050-007 | A1      | Exact      | 07:XX            | 07:XX            | Cw7,Null     | Cw7,Null     |         | <input checked="" type="checkbox"/>          | Lab Supervisor | 04.06.21       | <input checked="" type="checkbox"/>         | Lab Supervisor | 04.06.21      |
| B-091050-040 | B1      | Exact      |                  |                  |              |              |         | <input checked="" type="checkbox"/>          | Lab Supervisor | 04.06.21       | <input checked="" type="checkbox"/>         | Lab Supervisor | 04.06.21      |
| B-091050-049 | C1      | Exact      | 04:XX            | 08:XX            | Cw4,Null     | Cw8,Null     |         | <input checked="" type="checkbox"/>          | Lab Supervisor | 04.06.21       | <input checked="" type="checkbox"/>         | Lab Supervisor | 04.06.21      |
| B-091050-069 | D1      | Exact      | 02:XX            | 16:XX            | Cw2,Null     | Null         |         | <input checked="" type="checkbox"/>          | Lab Supervisor | 04.06.21       | <input checked="" type="checkbox"/>         | Lab Supervisor | 04.06.21      |
| B-091050-061 | E1      | Exact      | 02:XX            | 02:XX            | Cw2,Null     | Cw2,Null     |         | <input checked="" type="checkbox"/>          | Lab Supervisor | 04.06.21       | <input checked="" type="checkbox"/>         | Lab Supervisor | 04.06.21      |
| B-091050-094 | F1      | Exact      | 06:XX            | 08:XX            | Cw6,Null     | Cw8,Null     |         | <input checked="" type="checkbox"/>          | Lab Supervisor | 04.06.21       | <input checked="" type="checkbox"/>         | Lab Supervisor | 04.06.21      |

- DETAILED

**SAMPLE GRAPH** displays all probes, and their assignments, for a given sample. The graph also shows the probe value in relation to the cut off for the probe.



**PROBE HISTORICAL GRAPH** provides a history of a probe to help determine probe behavior over a kit lot; this graph may also be used for internal QC.

**ALLELE COMPARISON** compares reference probe hit patterns for specific alleles to sample probe hit pattern.

| Probe Hit/ Allele Comparison                                                                                                                                                                                                           |                          |                          |                                     |                                     |                          |                                     |                                     |                                     |                                     |                          |                          |                                     |                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--|
| <div><div></div><div>Save and Re-Type</div><div><input type="checkbox"/></div><div>Sort By Assignment</div><div>Clear</div><div>Close</div></div> |                          |                          |                                     |                                     |                          |                                     |                                     |                                     |                                     |                          |                          |                                     |                          |  |
|                                                                                                                                                                                                                                        | 201                      | 202                      | 203                                 | 204                                 | 205                      | 206                                 | 207                                 | 210                                 | 211                                 | 212                      | 213                      | 215                                 | 216                      |  |
| ► Sample-1-A                                                                                                                                                                                                                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |  |
| 41:01                                                                                                                                                                                                                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |  |
| 53:01:01                                                                                                                                                                                                                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |  |





● EFFECTIVE

Multiple **FINAL TYPING ASSIGNMENT** options and **report formats** provide flexibility.

| Suggested Assignments |                       |       |     |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|-----------------------|-----------------------|-------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|------------------|-------|------------------|-------|------------------|----------|-------------------|----------|-----------------------|----------|-----------------------|
|                       | AG1                   | AG2   | SE1 | SE2                                                                                                                                                                                                                                                                                                                                                                      |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
| ▶                     | 11:01:01              | 69:01 | A11 | A69(28)                                                                                                                                                                                                                                                                                                                                                                  |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|                       | 11:12                 | 69:01 | A11 | A69(28)                                                                                                                                                                                                                                                                                                                                                                  |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|                       | 11:29                 | 69:01 | -   | A69(28)                                                                                                                                                                                                                                                                                                                                                                  |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|                       | 11:30                 | 69:01 | -   | A69(28)                                                                                                                                                                                                                                                                                                                                                                  |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|                       | 11:01:01              | 69:02 | A11 | -                                                                                                                                                                                                                                                                                                                                                                        |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|                       | 11:12                 | 69:02 | A11 | -                                                                                                                                                                                                                                                                                                                                                                        |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|                       | 11:29                 | 69:02 | -   | Assignment Snapshot:                                                                                                                                                                                                                                                                                                                                                     |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|                       | 11:30                 | 69:02 | -   |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|                       | 11:01:02              | 69:01 | A11 | <table><tr><th>Locus</th><th>Batch</th></tr><tr><td>HLA-A</td><td>09112014 A Locus</td></tr><tr><td>HLA-B</td><td>09112014 B Locus</td></tr><tr><td>HLA-C</td><td>09112014 C Locus</td></tr><tr><td>HLA-DRE1</td><td>09112014 DR Locus</td></tr><tr><td>HLA-DRE3</td><td>09112014 DR3/45 Locus</td></tr><tr><td>HLA-DRE4</td><td>09112014 DR3/45 Locus</td></tr></table> | Locus | Batch | HLA-A | 09112014 A Locus | HLA-B | 09112014 B Locus | HLA-C | 09112014 C Locus | HLA-DRE1 | 09112014 DR Locus | HLA-DRE3 | 09112014 DR3/45 Locus | HLA-DRE4 | 09112014 DR3/45 Locus |
| Locus                 | Batch                 |       |     |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
| HLA-A                 | 09112014 A Locus      |       |     |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
| HLA-B                 | 09112014 B Locus      |       |     |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
| HLA-C                 | 09112014 C Locus      |       |     |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
| HLA-DRE1              | 09112014 DR Locus     |       |     |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
| HLA-DRE3              | 09112014 DR3/45 Locus |       |     |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
| HLA-DRE4              | 09112014 DR3/45 Locus |       |     |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|                       | 11:01:03              | 69:01 | A11 |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |
|                       | 11:01:05              | 69:01 | A11 |                                                                                                                                                                                                                                                                                                                                                                          |       |       |       |                  |       |                  |       |                  |          |                   |          |                       |          |                       |

| Locus    | Batch                | AG1   | AG2   | SE1              | SE2                | Match Type | Merged |
|----------|----------------------|-------|-------|------------------|--------------------|------------|--------|
| HLA-A    | 09112014 A Locus     | 68JXX | 68JXX | A60(20)A20..Null | A60(20)..Null..A20 | Exact      | No     |
| HLA-B    | 09112014 B Locus     | 15JXX | 50JXX | B71(75) (Bw6)-   | B50(11) (Bw4)-     | Exact      | No     |
| HLA-C    | 09112014 C Locus     | 03JXX | 06JXX | Cw10(w3)-        | Cw6..Null          | Exact      | No     |
| HLA-DQB1 | 09112014 DR Locus    | 03JXX | 12JXX | DR12(3)-Null     | DR12(5)-           | Exact      | No     |
| HLA-DQB3 | 09112014 DR345 Locus | 02JXX | 02JXX | DR52..Null       | DR52..Null         | Exact      | No     |
| HLA-DQB4 | 09112014 DR345 Locus |       |       |                  |                    | Exact      | No     |
| HLA-DQB5 | 09112014 DR345 Locus |       |       |                  |                    | Exact      | No     |

| Assignment Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                   |                 |        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|-----------------|--------|--|
| Locus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Batch Name            | Lot No            | Expiration Date | PMGT   |  |
| HLA-A AG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D911.2014 A Locus/LC4 | 031D4A 99062B-LMA | 12/31/2014      | 3.16.0 |  |
| A*68:01:01:01;58:13:01:02;68:01:03;58:01:05;68:01:07;68:01:08;68:01:09;68:01:10;68:01:12;68:01:14;58:01:18;68:01:19;58:01:20;68:02:01:01;68:02:02:01;68:02:03:01;68:02:03:02;68:02:04:01;68:02:04:02;68:02:05:01;68:02:05:02;68:02:06:01;68:02:06:02;68:02:07:01;68:02:07:02;68:02:08:01;68:02:08:02;68:02:09:01;68:02:09:02;68:02:10:01;68:02:10:02;68:02:11:01;68:02:11:02;68:02:12:01;68:02:12:02;68:02:13:01;68:02:13:02;68:02:14:01;68:02:14:02;68:02:15:01;68:02:15:02;68:02:16:01;68:02:16:02;68:02:17:01;68:02:17:02;68:02:18:01;68:02:18:02;68:02:19:01;68:02:19:02;68:02:20:01;68:02:20:02;68:02:21:01;68:02:21:02;68:02:22:01;68:02:22:02;68:02:23:01;68:02:23:02;68:02:24:01;68:02:24:02;68:02:25:01;68:02:25:02;68:02:26:01;68:02:26:02;68:02:27:01;68:02:27:02;68:02:28:01;68:02:28:02;68:02:29:01;68:02:29:02;68:02:30:01;68:02:30:02;68:02:31:01;68:02:31:02;68:02:32:01;68:02:32:02;68:02:33:01;68:02:33:02;68:02:34:01;68:02:34:02;68:02:35:01;68:02:35:02;68:02:36:01;68:02:36:02;68:02:37:01;68:02:37:02;68:02:38:01;68:02:38:02;68:02:39:01;68:02:39:02;68:02:40:01;68:02:40:02;68:02:41:01;68:02:41:02;68:02:42:01;68:02:42:02;68:02:43:01;68:02:43:02;68:02:44:01;68:02:44:02;68:02:45:01;68:02:45:02;68:02:46:01;68:02:46:02;68:02:47:01;68:02:47:02;68:02:48:01;68:02:48:02;68:02:49:01;68:02:49:02;68:02:50:01;68:02:50:02;68:02:51:01;68:02:51:02;68:02:52:01;68:02:52:02;68:02:53:01;68:02:53:02;68:02:54:01;68:02:54:02;68:02:55:01;68:02:55:02;68:02:56:01;68:02:56:02;68:02:57:01;68:02:57:02;68:02:58:01;68:02:58:02;68:02:59:01;68:02:59:02;68:03:01:01;68:03:01:02;68:03:02:01;68:03:02:02;68:03:03:01;68:03:03:02;68:03:04:01;68:03:04:02;68:03:05:01;68:03:05:02;68:03:06:01;68:03:06:02;68:03:07:01;68:03:07:02;68:03:08:01;68:03:08:02;68:03:09:01;68:03:09:02;68:03:10:01;68:03:10:02;68:03:11:01;68:03:11:02;68:03:12:01;68:03:12:02;68:03:13:01;68:03:13:02;68:03:14:01;68:03:14:02;68:03:15:01;68:03:15:02;68:03:16:01;68:03:16:02;68:03:17:01;68:03:17:02;68:03:18:01;68:03:18:02;68:03:19:01;68:03:19:02;68:03:20:01;68:03:20:02;68:03:21:01;68:03:21:02;68:03:22:01;68:03:22:02;68:03:23:01;68:03:23:02;68:03:24:01;68:03:24:02;68:03:25:01;68:03:25:02;68:03:26:01;68:03:26:02;68:03:27:01;68:03:27:02;68:03:28:01;68:03:28:02;68:03:29:01;68:03:29:02;68:03:30:01;68:03:30:02;68:03:31:01;68:03:31:02;68:03:32:01;68:03:32:02;68:03:33:01;68:03:33:02;68:03:34:01;68:03:34:02;68:03:35:01;68:03:35:02;68:03:36:01;68:03:36:02;68:03:37:01;68:03:37:02;68:03:38:01;68:03:38:02;68:03:39:01;68:03:39:02;68:03:40:01;68:03:40:02;68:03:41:01;68:03:41:02;68:03:42:01;68:03:42:02;68:03:43:01;68:03:43:02;68:03:44:01;68:03:44:02;68:03:45:01;68:03:45:02;68:03:46:01;68:03:46:02;68:03:47:01;68:03:47:02;68:03:48:01;68:03:48:02;68:03:49:01;68:03:49:02;68:03:50:01;68:03:50:02;68:03:51:01;68:03:51:02;68:03:52:01;68:03:52:02;68:03:53:01;68:03:53:02;68:03:54:01;68:03:54:02;68:03:55:01;68:03:55:02;68:03:56:01;68:03:56:02;68:03:57:01;68:03:57:02;68:03:58:01;68:03:58:02;68:03:59:01;68:03:59:02;68:04:01:01;68:04:01:02;68:04:02:01;68:04:02:02;68:04:03:01;68:04:03:02;68:04:04:01;68:04:04:02;68:04:05:01;68:04:05:02;68:04:06:01;68:04:06:02;68:04:07:01;68:04:07:02;68:04:08:01;68:04:08:02;68:04:09:01;68:04:09:02;68:04:10:01;68:04:10:02;68:04:11:01;68:04:11:02;68:04:12:01;68:04:12:02;68:04:13:01;68:04:13:02;68:04:14:01;68:04:14:02;68:04:15:01;68:04:15:02;68:04:16:01;68:04:16:02;68:04:17:01;68:04:17:02;68:04:18:01;68:04:18:02;68:04:19:01;68:04:19:02;68:04:20:01;68:04:20:02;68:04:21:01;68:04:21:02;68:04:22:01;68:04:22:02;68:04:23:01;68:04:23:02;68:04:24:01;68:04:24:02;68:04:25:01;68:04:25:02;68:04:26:01;68:04:26:02;68:04:27:01;68:04:27:02;68:04:28:01;68:04:28:02;68:04:29:01;68:04:29:02;68:04:30:01;68:04:30:02;68:04:31:01;68:04:31:02;68:04:32:01;68:04:32:02;68:04:33:01;68:04:33:02;68:04:34:01;68:04:34:02;68:04:35:01;68:04:35:02;68:04:36:01;68:04:36:02;68:04:37:01;68:04:37:02;68:04:38:01;68:04:38:02;68:04:39:01;68:04:39:02;68:04:40:01;68:04:40:02;68:04:41:01;68:0 |                       |                   |                 |        |  |

### Final Typing Assignments:

| Locl     | Batch                | AG1   | AG2   | Match Type | Merged |
|----------|----------------------|-------|-------|------------|--------|
| HLA-A    | 09112014 A Locus     | 23:XX | 24:XX | Exact      | No     |
| HLA-B    | 09112014 B Locus     | 35:XX | 40:XX | Exact      | No     |
| HLA-C    | 09112014 C Locus     | 03:XX | 04:XX | Exact      | No     |
| HLA-DRB1 | 09112014 DR Locus    | 08:XX | 11:XX | Exact      | No     |
| HLA-DRB3 | 09112014 DR345 Locus | 02:XX | 02:XX | Exact      | No     |
| HLA-DRB4 | 09112014 DR345 Locus |       |       | Exact      | No     |
| HLA-DRB5 | 09112014 DR345 Locus |       |       | Exact      | No     |
| HLA-DQB1 | 09112014 DQ Locus    | 03:XX | 03:XX | Exact      | No     |

**Batch Information:**

| Loc    | Lot ID             | Allele Database Version | Run Date | Comments  | Completed By Date          | Approved By Date           |
|--------|--------------------|-------------------------|----------|-----------|----------------------------|----------------------------|
| HLA-A  | 03104A 09062B-LMA  | 3.16.0                  | 09/11/14 | Run eRes  | Lab Supervisor<br>10/15/14 | Lab Supervisor<br>10/15/14 |
| HLA-B  | 04144C 12153U-LMB  | 3.16.0                  | 09/11/14 |           | Lab Supervisor<br>09/16/14 | Lab Supervisor<br>10/15/14 |
| HLA-C  | 11193A 05283D-Ce   | 3.16.0                  | 09/11/14 |           | Lab Supervisor<br>10/15/14 | Lab Supervisor<br>10/15/14 |
| DRB1   | 01284B 11053B-DRB1 | 3.16.0                  | 09/11/14 | Run eRes. | Lab Supervisor<br>10/15/14 | Lab Supervisor<br>10/15/14 |
| DRB3/4 | 01104D 10193J-3/4  | 3.16.0                  | 09/11/14 | DRS2      | Lab Supervisor<br>10/15/14 | Lab Supervisor<br>10/15/14 |
| DQB    | 02044C 12113N-DQB  | 3.16.0                  | 09/11/14 | DQ7       | Lab Supervisor<br>10/15/14 | Lab Supervisor<br>10/15/14 |



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