# Genome-Wide Human SNP 6.0 Assay Software Module v2.3

User Guide



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# Genome-Wide Human SNP 6.0 Assay Software Module v2.3

### Introduction

This User's Guide demonstrates how to create a **Genome-Wide Human SNP 6.0 Assay Software Module** v2.3 RUO Assay Test Request.

This software is for use with the GCS3000Dx v.2 system and is also compatible with the SNP 6 Core Reagent Kit.

#### Nomenclature

- The Assay name is **Genome-Wide Human SNP Assay 6.0**.
- The Assay display name is Human SNP 6.0 ASM v2.3.
- The term **ASM** refers to **Assay Software Module**.

### Major Features of Human SNP 6.0 ASM v2.3

The major features of Human SNP 6.0 ASM v2.3 are 4 windows that augment assay record keeping. This user guide will also discuss the use of these windows in setting up the assay. These windows include:

- Additional Information window
- Assay Home window (or Assay Landing window)
- Batch Edit window
- Report window

Human SNP 6.0 ASM v2.3 (under the control of the AMDS application), transfers all specimen information to the server.

## !

# IMPORTANT: It is <u>NOT</u> the purpose of this abbreviated User's Guide to instruct you on how to run the Assay. This guide instructs only how to create a RUO Test Request and track associated information.

To complete an Assay run, you must follow the standard AMDS Assay protocols, then process it through the workflow to register, hybridize, wash/stain, and scan the array (as part of the array cartridge). These specifics are discussed in the *Molecular Diagnostic Software User's Guide (P/N 08-0261)*.



## **IMPORTANT:** Before using the information contained in this guide to run the assay, you must thoroughly be familiar with the following documents:

- Molecular Diagnostic Software User's Guide (P/N 08-0261)
- Molecular Diagnostic Software Quick Reference Card (P/N 08-0262)
- SNP Assay 6.0 User Guide for Automated Target Preparation (P/N 702561)
- Genome-Wide Human SNP Nsp/Sty 6.0 User Guide (P/N 702504)

### Reagents

Reagents for the Genome-Wide Human SNP 6.0 Array (single array P/N 520532) comprise the following Reagent Sub-Kits:

- GeneChip<sup>TM</sup> Genome-Wide Human SNP Nsp/Sty 6.0 Kit (100 rxn) (P/N 901011)
- GeneChip<sup>™</sup> Reference Genomic DNA 103 (50ng/µL) (P/N 901012)
- GeneChip<sup>™</sup> SNP 6.0 Digest & Ligate Subkit (100 rxn) (P/N 901673)
- GeneChip<sup>™</sup> SNP 6.0 Hybridization Buffer Subkit (100 rxn) (P/N 901677)
- GeneChip<sup>™</sup> Hold and Stain Subkit (P/N 901674)
- Wash Buffer A (P/N 901680)
- Wash Buffer B (P/N 901681)

### Installing the ASM (Assay Software Module)

To process a Human SNP 6.0 ASM v2.3 Test Request on the system, you must first:

- **1.** Install a Certificate (only for secure transfers to a Data Transfer Server and not required for CIFS transfers).
- 2. Install Human SNP 6.0 ASM v2.3.

#### Installing a Certificate

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**NOTE:** In most cases, the Field Service Technician installs the certificate and ASM.



**NOTE:** The steps in this section apply only if you are using a Data Transfer Server. If you are transferring your data via CIFS, SKIP to *Installing the Human SNP 6.0 ASM v2.3*.

As a security measure, AMDS requires that you or the field service technician install a SSL server certificate on your local workstation in order for your workstation to communicate with the server. This is required for the transfer of Human SNP 6.0 ASM v2.3 test request data to the Data Transfer Server.

The service technician should have installed a certificate at the time of the system's installation. If for some reason the service technician did not install a certificate or if the server has changed after the system's initial installation, you must install or reinstall a certificate.

You MUST install the certificate before installing the Assay.

If a proper certificate has not been installed, you can still install the assay and process test requests; however, you will not have permission to access the server, and you cannot transfer test request data to the server.

If you cannot access the server and have already installed a certificate, contact Thermo Fisher Technical Support.



**NOTE:** You must be logged in with either Laboratory Supervisor or System Maintainer privileges to install a certificate.

The Active Worklist Administrator panel contains the **Assay Management** button and provides the starting point for installing a certificate (Figure 1).

Figure 1 The Active Worklist Administrator Pane (lower left)

Administrator	
View Logs	
Assay Management	0
User Management	-
System Management	9

- **1.** Insert the CD into the drive.
- 2. Click Assay Management.

The Assay Management window appears.

3. Click Install Certificate.

The Server Certificate Browse window appears. (Figure 2)

Figure 2 The Server Certificate Browse window.					
🔜 Please select a server certificate to ins 🗙					
Install from CD					
🔘 Instell fram lacel disk drive					
OK Carcel					

- 4. Make sure the **Install from CD** radio button is selected, then navigate to and click the appropriate **.cer** file.
- 5. Click OK.

The message You have successfully added the server certificate xxxxx.cer to the AMDS trusted certificate store appears.



**NOTE:** If the certificate installation fails, an error message appears. You cannot access the server or transfer data without a certificate. Contact your Service Representative for information on obtaining a new certificate.

6. Click **OK** to return to the Assay Management window.

#### Installing the Human SNP 6.0 ASM v2.3

The ASM installation process is relatively simple. It requires the selection of a manifest file and the selection of approved user access.



**NOTE:** You must be logged in with either Laboratory Supervisor or with System Maintainer privileges to install an Assay Software Module.

- 1. Insert the CD into the drive.
- 2. Click Assay Management.

The Assay Management window appears.

3. Click Install Assay.

The Assay Installation window appears. (Figure 3)

Figure 3 The Assay Installation window	
Assay Installation	
Select the Manifest file	
Browse	
Conligure User Access	
dx2labsuper	
Select All Deselect Al	
Cancel	
	1

#### 4. Click Browse.

The Assay Installation Browse window appears. (Figure 4)

Figure 4 The Assay Installation Browse window	
🖶 Locate Manifest File 🛛 🔀	
<ul> <li>Install from CD</li> </ul>	
Install from local disk drive	
D:\ AGCC Templates Archive Bin Cacheln Cacheln Data Data EvenueCom human_srp_6.0_asm_v2.3.manifest	
OK Cancel	

- Make sure the Install from CD radio button is selected, then navigate to and click on D:\Human\_SNP\_6.0\_ASM\_v2.3\human\_snp\_6.0\_asm\_v2.3.manifest
- 6. Click OK.

The Assay Installation window appears. (Figure 5)

Figure 5 The Assay Installation browse window for the Human SNP 6.0 ASM v2.3	
Assay Installation	
Select the Manifest file           D:\\Human_SNP_6.0_ASM_v2.3\Human_SNP_6.0_ASM_v2.3.Manifest	
LIS name Human_SNP_6.0_ASM_v2.3	
Conligure User Access	
Select All Deselect Al	
Instal Cancel	
	l

- 7. Click to choose each authorized Assay User or click Select All.
- 8. Click Install.

The Remote Device Settings window appears. (Figure 6)

Figure 6 The Remote Device Settings v	vindow	
Assay Installation - Human_SNP_6.0_ASM_	v2.3	
⊂ Remote Device Settings	Example for CIFSJShared Folder: '\RemoteFileServer'Share Example for WebDAY: https://server.company.com/directory/	
NA Device Path:	WI	
NA Device Server Username:		
NA Device Server Password:		
Confirm Password:		
	Install Cancel	

**NOTE:** In AMDS 1.1.1, users can enter their transfer location either as a WebDav URL (e.g. https://dx2\_webdav\_server/dx2\_ruo) or as a Common Interface File System (CIFS) folder designation (e.g. \\dx2\_cifs\_folder\dx2\_ruo\_files). For AMDS releases prior to AMDS 1.1.1, only the WebDav option is available.

9. Locate and enter the NA Device URL. This is the location where AMDS sends its completed Assay data.

**10.** Enter the **NA Device Server User Name**. Use the existing server, workstation, or network user name.

- 11. Enter the NA Device Server Password. Use the existing server, workstation, or network password.
- **12.** Confirm the password.



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**NOTE:** Your NA Device Server Username and Password are not the user name and password that you used to log into AMDS. You must enter your user name and password that you use to access the server.

13. Confirm that the firewall is ON and your workstation is connected to the network.

#### 14. Click Install.

### **Firewall Issues**

If the software cannot connect through your system's firewall, the following error message appears: (Figure 7)

Remote Device Settings         Unable to connect to Firewal. Abort will terminate assay installation. Ignore will install the assay, but the system will not have permission to communicate with the remote machine. Retry will attempt to connect again.         Abort       Retry         Ignore

There are 3 buttons to acknowledge the Remote Device Settings Error message.

- **Abort** Exits the Assay installation.
- **Retry** Attempts another try.
- **Ignore** Continues the installation.



**NOTE:** If you select Ignore, AMDS installs the Assay, however you will not be granted permission to communicate with any remote server.

### **Repairing Currently Installed ASM**

If this ASM already exists on the system and it is reinstalled, the following message appears: (Figure 8)

Figure 8 The Repair Assay window	
<ul> <li>This assay is already installed.</li> <li>Would you like to repair it?</li> <li>Reasons to repair an assay are: <ol> <li>Activating a disabled assay</li> <li>Updating the server information <ol> <li>for assays requiring a server</li> <li>Returning the assay to a newly-installed state</li> </ol> </li> <li>Please do not repair this assay if there are test requests <ul> <li>associated with this assay in the "In Progress" state on any worklist.</li> <li>To stop the repair, click Cancel. To continue with the repair, click Continue.</li> </ul> </li> </ol></li></ul>	
User Credentials	
User Name dx2labsuper	
Password	
Event Reason	
Repair Reason	
Continue	

Any AMDS user with valid AMDS credentials and appropriate permissions can **Repair** the previously installed ASM.

1. Enter your User Name and Password, then click Continue.

The ASM Installation status window and progress bar appear. (Figure 9)

Action	Status
Check Installation files Complete	eled
Creale Directories and Copy Installation Files Comple	əled
Verity Installation files Complete	eted
Create Assay Group Comple	sted
Apply Security setting Comple	eled
Install Web Services Comple	eled
Update System Settings Comple	eted
Status	

2. Click Finish to conclude the ASM installation and return to the Assay Management window.

Installation of the ASM is complete.

### **Creating a Test Request**



**NOTE:** You must be a Laboratory Supervisor, Technician, or Technologist to create a Test Request.

**1.** If you are not already in the Active Worklist window, click the **Active Worklist** button. (Figure 10) The Active Worklist panel appears.

		Active Worklist Total 23						
Aflymetrix <sup>®</sup> Molecular	Oreate	at Cancel Test Reques			Select All	Assar Batch Remov	e Filters Help	Abo
Diagnostic Software	Specimen ID	Assay Name	Registration	Hybridization Oven	Fluidics	Scanner	Review Rep	ults
	-	Display Al	👻 Dioplay All 🛛 💌	Display All 💌	Display All 🛛 💌	Dioplay All 💌	Display All	
Workflow								
Active Worklist								
Constitution of the local division of the lo								
and the second se								
agistration								
ngistration								
Agistration								
reintration								
Hybridization Oven								
Hybridization Oven								
Hybridization Oven								
Hybridization Oven								

2. From the Active Worklist toolbar, click **Create**.

The Enter Test Request window appears. (Figure 11)

Fi	Figure 11 The Enter Test Request window						
			Enter Test	t Request			
					Select All	Submit Delete	Help
sr	Specimen ID	Assay Name	Registration	Hybridiz ation Oven	Fluidics	Scanner	Review F
1	H919800	Human SNP 6.0 ASM v2.3 🔷 😽					
1		*					

**3.** Use the handheld barcode scanner to enter one or more **Specimen IDs**. You may also enter the Specimen IDs manually.

4. Select the Assay Name from the drop-down menu - for EACH Specimen ID.



**NOTE:** The current Assay Name for the Human SNP 6.0 ASM v2.3 is Human SNP 6.0 ASM v2.3.

5. Once you have made your entries, click **Submit**.

The Enter Test Request window closes. The software displays the Active Worklist window with the newly created test request(s) on the window.



**NOTE:** After you have submitted the test request, the procedures for Registration, Hybridization, Fluidics Station processing and Scanning are the same as those steps outlined in the *Molecular Diagnostic Software User's Guide* (P/N 08-0261). Refer to that document for further instructions.

### **Adding Specimen Information**

After you create a Test Request and return to the Active Worklist, you can add certain types of pertinent information about the specimen. You can also add this information later here, or in other worklists. This information is not necessary in order to run the assay.



**IMPORTANT:** You cannot associate any additional information with test requests after scanning has started. You will not be able to save your edits. If you attempt to save, the software displays an error message.

Editing specimen information requires an e-signature upon saving, however an e-signature is NOT required for initial data entry.

1. Click the desired Specimen ID field. The Additional Information window appears. (Figure 12)

gure 12 The Specimen	ID Additional Information window	
dditional Information: Human	SNP 6.0 ASM v2.3	
Affymetrix® Genome-Wide Hu	man SNP Assay 5.0 For Research Us	e Only. Not for use in diagnostic procedures
XV/ut	······,····,····	
Affymetrix		
arymeenx	Specimen ID: H313800	
	Boilded Value indicates new value to be saved.	Enter Date as YYYY-MM-DD, Time as HH: MM:SS am/pm
Field Name	Field Values	
Sample_ID	S0001	
Family_ID	F0001	
Individual_ID	10001	
Father_ID	Father-0932	
Mother_ID	Mother-0932	
Individual Record Number	IRN-2314	
Individual Family Name	Archer	
Individual Given Name	Wendy	
Бек	Female	*
Affection Statux	Unaffected	×
Date of Birth	1976-08-17	
Sample_Type		
Sample Size Unit		×
Sample Size Value		
Method of Collection		
Collection Date		
Collection Time		
Requestor Family Name		
Requestor Given Name		
Requesting Institution		
Request Date		
Additional info 1		
Additional info 2		
Additional info 3		
Additional info 4		
Additional info 5		

- 2. Add the following information into the Field Values column:
  - **Sample\_ID** Enter manually or from a barcode.
  - **Family\_ID** Enter manually or from a barcode.
  - **Individual\_ID** Enter manually or from a barcode.
  - **Father\_ID** Enter manually or from a barcode.
  - Mother\_ID Enter manually or from a barcode.
  - Individual Record Number Enter manually or from a barcode.
  - Individual Family Name Enter manually.
  - Individual Given Name Enter manually.
  - Sex Select: Male Female Unknown Blank Field
  - Affection Status Select: Unknown Unaffected Affected Blank Field
  - Date of Birth Enter manually using a defined format. The format <u>must be</u> entered in an ISO 8601 format: 4-digit year first, then month, then day. (Example: 2012-11-09 for November 9, 2012) <u>No</u> <u>other date format is allowed</u>.
  - **Sample\_Type** Enter manually.
  - Sample Size Unit Select: mL µL oz mg g inch cm mm Blank Field
  - Sample Size Value Enter manually using a floating-point numeric value.
  - Method of Collection Enter manually.
  - Collection Date Enter manually using an ISO 8601 approved date format.
  - **Collection Time** Enter manually using either a 12 or 24-hour time format. Twenty-four hour entries are automatically converted to 12-hour. (Example: 13:15 -> 1:15 pm)
  - Requestor Family Name Enter manually.
  - **Requestor Given Name** Enter manually.
  - **Requesting Institution** Enter manually.
  - Request Date Enter manually using an ISO 8601 approved date format.
  - Additional Info 1-5 Manually enter up to 5 fields.
- 3. Click Save and Close or Close (to exit without saving).
  - After clicking **Close**, the following may occur:
    - If no edits were made, the window closes.
    - If you made edits, a **Would you like to save changes?** message appears.

Do one of the following:

- 1. Click **Yes** to collect an e-signature, save edits, and close window.
- 2. Click **No** to discard edits and close window.
- 3. Click **Cancel** to display the Specimen ID additional information window (with edits displayed).

### The Assay Information/Home Window

### Adding Reagent Information

The Assay Information (or Assay Home) window provides a summary of all specimen information, test request logs, and pertinent reagent information for each assay type.

The Assay Information/Home window has the following tabs/sub-windows:

- Reagent Information
- Specimen Report
- Test Request Log
- **1.** From any worklist window, go to the Assay Name field and click **Assay Name**. The Assay Information/Home window appears.
- 2. Click the Reagent Information tab (Figure 13) to view current Reagent information
- **3.** Click to select each appropriate Specimen ID from the list (left pane).

ure 13 The Rea	agent Informati	on tab				
ay Home: Human SNP	6.0 ASM v2.3					
affymetrix® Genome.∖	Wide Human SNP Assay	6.0	For Research	Use Only, No	tforuse in die	agnostic procedur
Affymetrix	Bolded Reag	ent Kit Name indicates multiple old values exist. Bolde	ed Data indicates no	w value to be saved	t. Enter Expire	ation Date as YYYY-MM-D
Test Bequests	si hequesi Log   Hoogen					
Specimen ID	Registration Date A	Reagent Kit Name	PartNumber	htenuferturer	Lot Number	Evoiration Date
		GeneChip® Beference Genomic DNA 103 (50ng. GeneChip® SNP 6.0 Digest & Ligete Subkit (100. GeneChip® SNP 6.0 Hybridization Buffer Subkit GeneChip® Hold and Stain Subkit Wash Buffer A Wash Buffer B	901011 901623 901623 901627 901624 901680 901681	Anymetini Affymetini Affymetini Affymetini Affymetini Affymetini	7054212 7417232 9724777 65555414 3544789 1225444 4478541	2015-12-19 2015-12-19 2015-01-18 2015-09-18 2015-06-18 2015-06-18 2015-11-28
			Abo	<b>t</b>	Save	Elese

4. Use the handheld barcode scanner to scan each Reagent Kit barcode.



**NOTE:** You can also enter the reagent kit information manually by selecting test requests in the left side of the window, then placing the cursor in to the lot number and expiration date fields for the appropriate kits and typing in the correct information. This method should be used for all reagents manufactured by companies other than Thermo Fisher, Inc.

The scanner parses the Reagent information, then enters its lot number and expiration date into the correct fields (for all selected test requests). Using the barcode scanner eliminates manual entry errors.

5. Click Save.

### **Reagent Kit Information**

The Human SNP 6.0 ASM v2.3 Assay Information/Home window contains the following Reagent Kit information:

- Reagent Kit Name
  - GeneChip<sup>™</sup> Genome-Wide Human SNP Nsp/Sty 6.0 Kit (100 rxn) (P/N 901011)
  - GeneChip<sup>™</sup> Reference Genomic DNA 103 (50ng/µL) (P/N 901012)
  - GeneChip<sup>™</sup> SNP 6.0 Digest & Ligate Subkit (100 rxn) (P/N 901673)
  - GeneChip<sup>™</sup> SNP 6.0 Hybridization Buffer Subkit (100 rxn) (P/N 901677)
  - GeneChip<sup>™</sup> Hold and Stain Subkit (P/N 901674)
  - Wash Buffer A (P/N 901680)
  - Wash Buffer B (P/N 901681)
- Reagent Kit Manufacturer information
- Reagent Lot Number
- Reagent Expiration Date



NOTE: The Reagent Kit Lot Number, and Expiration Date are NOT required to run the Assay.

### **Reagent Entry Information**

AMDS provides the ability to transfer the Reagent Kit Name, Manufacturer, Part Number, Lot No. and Expiration Date to the server, along with other test request information.

Reagents marked with the manufacturer can be entered using a barcode scanner. The corresponding lot number and expiration date (for ALL selected Test Requests) are automatically entered into their appropriate field.

Reagent information manufactured by other companies must be entered manually.



**NOTE:** You cannot make any edits to a test request after the array associated with that particular test request has started scanning on the GCS3000Dx v.2 scanner.

If you click **Close** only, the following occurs:

- If no edits were performed, the window closes.
- If edits were made, the message *Would you like to save changes?* (with 3 buttons) appears. Do one of the following:
  - 1. Click **Yes** to save edits and close the window.
  - 2. Click No to discard ALL edits and return to the Reagent Information window.
  - 3. Click **Cancel** to return to the Reagent Information window (with edits saved).

#### **Reagent Kit Lot Numbers and Expiration Dates**

The Human SNP 6.0 ASM v2.3 retains the association between a Reagent Kit Lot Number and its Expiration Date.

### **Expiration Date Scenarios**

If you enter a Lot Number already associated with another Test Request, AMDS auto-populates the Expiration Date field. Click **Save** to save all associated Test Requests.

To modify an AMDS auto-populated Expiration Date field, enter the date change, then click **Save**. The message *Do you want to save this expiration date for all other test requests with this lot number*? appears. Do the following:

- 1. Click **OK** to save this Expiration Date for ALL Test Requests.
- 2. Click Cancel to return to the window without modifying the original Expiration Date.

Clicking **OK**, generates the following message:

You have changed the expiration date for <reagent kit name> Lot <lot number> from <old date> to <new date>.

This affects <count> Test Requests.

After saving, the new Expiration Date(s) are retained. ALL pre-scanned Test Request(s) and Lot Number(s) now include their new Expiration Date(s).

#### **Specimen Report Tab**

Click the **Specimen Report** tab (Figure 14) to view all the Specimen IDs associated with that Assay type (in this case the Human SNP 6.0 ASM v2.3).

ł	igure 14 The	Specimen Report	tab				
	Assay Home: Human	SNP 6.0 ASM v2.3					X
	Affymetrix® Genome-Wide Human SNP Assay 6.0 Affymetrix			For Re	search Use C	)nly. Not for use in die	agnostic procedures.
	Specimen Report	Test Request Log Reagent I	nformation				
	Test Requests Specimen ID	Individual Record Number	Individual Family Name	Individual Given Name	Sex	Affection Status	Sample ID
	H919800	IRN-2314	Archer	Wendy	Female	Unaffected	S0001

Click the **Specimen Report** tab to view ALL Specimen IDs associated with an Assay type. This window includes the following fields:

- Specimen ID
- Individual Record Number

- Individual Family Name
- Individual Given Name
- Sex
- Affection Status
- Sample\_ID
- Sample\_Type
- Requestor Family Name
- Requestor Given Name
- Requesting Institution
- Request Date

### **Test Request Log Tab**

Click the **Test Request Log** tab (Figure 15) to view all the Test Requests associated with an Assay type. Each Test Request includes the following **Log Entry** information:

- Date
- Time
- User
- Type
- Subsystem
- Short Message
- Long Message

Affymetrix® Genom	⊷Wide Human SNP	Assay 6.0			For Rese	arch Use Only. I	Yat for use in diagnostic proce
Specimen Report	Fest Request Log	eagent Information					
Test Requests -		Test Reques	tLog				
Specimen ID 🔻		Date	Time	User	Туре	Subsystem	Short Message
H919800		8/21/2012	1:28 PM	System	Workflow	WebService	State Change to Created State
		8/21/2012	1:38 PM	d57dtl59-df6b-4	Workflow	GUI	Successfully saved test request in
		<			U.		
		Cong Massay Saved these [Father_ID]Fa Name[Archet] Binth]1976-08- Date[] [Collect Date[] [Addition	38 [Name[Value] [Individual G 17] [Sample_] tion Time]] [P onal info 1]] [4	] pairs: [Sa other_D Mother-093 iiven Name Wendy] Type]] [Sample Size Requestor Family Na Additional into 2] [Ad	mple_ID S000 2] (Individual P (Sex(Female)   2 Unit[] (Sample me[] (Request difional into 3)]	] [Family_ID F000 ecord Number IPI Aflection Status U Size Value]] [Met or Given Name]] [F [Additional into 4]]	] [Individual_ID]/0001] +2314] [Individual Family reflected] [Date of had of Collection] [Collection lequesting Institution]] [Request [Additional Info 5]]

### **Batching Additional Test Request Information**

Use the Batch Edit feature to enter or edit the identical information over multiple Test Requests.



**IMPORTANT:** To ensure data accuracy, changes must save before scanning. You cannot add or edit information after scanning is complete.

- 1. In the Active Worklist or any of the worklist windows, select your test requests.
- 2. Click the **Batch Edit** button. The Assay Batch Information window appears (Figure 16) listing Specimen IDs (left column).
- 3. Use the right Field Value column to enter or change the following:
  - Sex
  - Affection Status
  - Sample\_Type
  - Method of Collection
  - Collection Date
  - Collection Time
  - Requestor Family Name

- Requestor Given Name
- Requesting Institution
- Request Date
- Additional Info 1-5 (five user-defined fields)
- **4.** Click **Save and Close** to save changes. To exit the Batch Edit window click **Close**, then click the appropriate button.
  - Yes Saves changes.
  - No Discards changes.
  - **Cancel** Returns to **Batch Edit** window with previous changes saved.

gure 16 The Assay Batch Info	ormation window			
Assay Batch Information: Human SNP 6.0	ASM v2.3			E
Affymetrix® Genome-Wide Human SN Affymetrix®	P Assay 6.0	For Research Use O	)nly. Not for use in d	iagnostic procedures.
r Test Requests in Assay Batch	Bolded Field Name	indicates multiple old values exist.	Bolded Value i	ndicates new value to be saved
Specimen ID			Enter Date as YYYY-MM-	DD. Time as HH:MM:SS anvpr
H919800				
	Field Name	Field Value		
	Sex	Female		~
	Affection Status	Unaffected		*
	Sample_Type			
	Method of Collection			
	Collection D ate			=
	Callection Time			
	Requestor Family Name			
	Requestor Given Name			
	Requesting Institution			
	Request Date			
	Additional into 1			
	Additional into 2			
	Additional into 3			¥
			Save and Close	Close

### **Gridding Manually**

If an alert (error) occurs during the automatic gridding process you can perform a manual grid alignment.

**IMPORTANT:** Before gridding manually, you must be familiar with the gridding function referenced in the GeneChip<sup>™</sup> System 3000Dx v.2 User Guide (P/N 08-0261), the GeneChip<sup>™</sup> Command Console<sup>™</sup> 1.0 User's Guide (P/N 702569), the GeneChip<sup>™</sup> System 3000Dx (for EU) User's Guide (P/N 08-0136), or other applicable documentation. The AMDS manual's gridding procedure is based on the gridding procedure outlined in these manuals.

A gridding failure on a Test Request triggers a manual grid alignment alert. Do the following to remedy this alert:

1

- 1. Click the Alert (Alerts window right side).
- 2. View the Alert, then click **Resolve**.
- 3. Enter your User ID and Password.
- 4. Click OK.

The DatImageViewer window appears.

- 5. Manually adjust the grid.
- 6. Click Save.
- 7. Close DatImageViewer.

### **Transferring Data**

AMDS automatically transfers the completed Assay data to the URL that you set up when you originally installed your Assay. The descriptor labels and data that AMDS transfers to the non-AMDS system include the following File types: **.ARR - .AUDIT - .CEL - .DAT - .GRD - .LOG - .MD5** 

The **.MD5** file is a CHECKSUM file. Use the utility FastSum (Windows<sup>™</sup>) or md5sum (Linux) to confirm the AMDS has correctly transferred all the files.



# NOTE: Specimen and tracked Reagent information labels (and their corresponding data fields) can either be completed or left blank.

The AMDS confirms the data has completed its transfer successfully, by the following criteria:

- The Assay module detects no exceptions upon transferring.
- The Assay module confirms that every file listed has successfully transferred to the server.

After AMDS transfers files to the server, it places all associated files in a folder named, Human\_SNP\_6.0\_ASM\_v2.3

The AMDS renames the transferred files using the following convention:

Test Request Date and Time + "\_" + 3 digits + "\_" + specimenID + original file extension. Example: 20120821\_153910\_001\_H919800.DAT



## NOTE: After a successful data transfer, AMDS auto-deletes the .DAT and .CEL files from its local hard drive.

### **Reviewing the Test Report**

After completing all Assay steps (Registration, Hybridization, Wash/Stain, Scanning, etc.), the Test Request moves to a Non-Active Worklist. ASM generates a Date/Time stamp hyperlink.



**IMPORTANT:** To view the Test Result report, you must be in the Non-Active Worklist window.

1. From the Review Results column (far right), Locate the Test Request Record you want to review, then click its Date/Time hyperlink. The Test Results/Test Report window appears. (Figure 17)

sult View: Human SNP 6.0	ASM v2.3	
netrix® Genome Wide Hu Fymetrix Text Report - Affronetri	man SNP Assay 6.0	For Research Use Only. Not for use in diagnostic procedures
Unload URL:	Wdtsd5ofdef1/dv2	ma filedalMDC/TESTIUHuman SNP 6.0 ASM v2.3
Upload Time:	2012-08-21 1:52	PM
Source Machine Name:	AMDS-TEST1	
Assav Details		
Specimen ID:	H919800	
Array Barcode:	@520532009876	54091112123456732650
20120821_132803_001_ 20120821_132803_001_ 20120821_132803_001_ 20120821_132803_001_ 20120821_132803_001_ 20120821_132803_001_ 20120821_132803_001_	H919800 MD5 H919800 DAT H919800 CEL H919800 ARR H919800 GRD H919800 LOG H919800 AUDIT	
View Worklist Comments and Em	as Print	Close

The **Test Report** (Figure 17) displays the following information:

- Upload details
  - Upload URL (Save location of files)
  - Upload Time
  - Source Machine Name
- Assay Details
  - Specimen ID
  - Array barcode

- Uploaded Files (Transferred files)
  - .ARR
  - .AUDIT
  - .CEL
  - .DAT
  - .GRD
  - .LOG
  - .MD5
- **Close** Closes the Results window.
- **Print** Prints the results to a pre-configured default printer.
- View Worklist Comments and Errors The Audit Log Comments and Errors window appears. (Figure 18) Any comments or errors associated with the Test Request are listed here.

		Δ	lit Log		
		Aut	int Log		
Date/Time	Workflow Step	Туре	User	Message	
2012-08- 2211:40:31	Other	Error	dx2absuper	The test request files failed to upload to the server. Id: c5c2cobe-c3b1-4929-9443- a6b07618e565	
2012-08- 2211:35:29	Gridding	Error	dx2labsuper	Gridding - Alignment failed. Id: 75/45026-c955-4615-6acf- c9620123e468	

### **Ordering Information**

The table below lists the Human SNP 6.0 ASM v2.3 Reagent and Array and its associated part number.

Name	P/N	Supplier
GeneChip™ Genome-Wide Human SNP Nsp/Sty 6.0 Kit (100 rxn)	901011	Thermo Fisher
GeneChip™ Reference Genomic DNA 103 (50ng/µL)	901012	Thermo Fisher
GeneChip™ SNP 6.0 Hybridization Buffer Subkit (100 rxn)	901677	Thermo Fisher
GeneChip™ Hold and Stain Subkit	901674	Thermo Fisher
Wash Buffer A	901680	Thermo Fisher
Wash Buffer B	901681	Thermo Fisher
Genome-Wide Human SNP Array 6.0 (5 arrays)	901182	Thermo Fisher
Genome-Wide Human SNP Array 6.0 (50 arrays)	901153	Thermo Fisher
Genome-Wide Human SNP Array 6.0 (100 arrays)	901150	Thermo Fisher

### Obtaining support

Technical support	For the latest services and support information for all locations, visit <b>www.thermofisher.com</b> .
	At the website, you can:
	• Access worldwide telephone and fax numbers to contact Technical Support and Sales facilities
	• Search through frequently asked questions (FAQs)
	• Submit a question directly to Technical Support (thermofisher.com/support)
	• Search for user documents, SDSs, vector maps and sequences, application notes, formulations, handbooks, certificates of analysis, citations, and other product support documents
	Obtain information about customer training
	Download software updates and patches
Safety Data Sheets (SDS)	Safety Data Sheets (SDSs) are available at <b>thermofisher.com/support</b> .
Limited product warranty	Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at <b>www.thermofisher.com/us/en/home/global/terms-</b> <b>and-conditions.html</b> . If you have any questions, please contact Life Technologies at <b>www.thermofisher.com/support</b> .

For support visit thermofisher.com/support or emailtechsupport@lifetech.com

thermofisher.com

23 January 2017

