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User's Guide

GeneChip® Gene 1.0 ST
Assay Software Module
Version 1.0

Draft
16April12 - v2

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GeneChip® Human Gene 1.0 ST Assay Software Module, Version 1.0

Introduction

This user's guide shows you how to create the GeneChip® Human Gene 1.0 ST Assay Software Module v1.0 RUO assay test request. This module is for the GeneChip® Human Gene 1.0 ST Assay that is run on the GCS3000Dx v.2 system using the Affymetrix® Molecular Diagnostic Software (AMDS).

Affymetrix has designed this assay software to be compatible with the GCS3000Dx v.2 system and the GeneChip® Human Gene 1.0 ST Array Reagent Kits.

Nomenclature

The assay name is “GeneChip® Human Gene 1.0 ST Assay”

The assay display name is “Human Gene 1.0 ST v1.0”

The term ASM refers to Assay Software Module.

Major Features of Human Gene 1.0 ST v1.0

The major features of the Human Gene 1.0 ST v1.0 are four screens that augment assay record keeping. This user guide will also discuss the use of these screens in setting up the assay. These screens include:

1. Additional Information screen
2. Assay Home screen (or Assay Landing screen)
3. Batch Edit screen
4. Report screen

In addition, the Human Gene 1.0 ST v1.0, under the control of the AMDS application, can transfer all specimen information to the server.

It is not the purpose of this short user's guide to instruct you on how to run the assay. This user's guide will show you how to create the RUO test request. To complete the assay run, you will still need to follow the standard AMDS assay protocols and process it through the workflow to register, hybridize, wash/stain, and scan the array (as part of the array cartridge), the details of which are discussed in the *Affymetrix® Molecular Diagnostic Software User Guide* (P/N 08-0261).

You must be thoroughly familiar with the information contained in the *Affymetrix® Molecular Diagnostic Software User Guide*, the *Affymetrix® Molecular Diagnostic Software Quick Reference Card* (P/N 08-0262), *GeneChip® WT Terminal Labeling and Hybridization User Manual* (P/N 702808), *The Ambion® WT Expression Kit* (P/N 4425209), *GeneChip® Expression Wash, Stain and Scan User Manual* (P/N 702731), and *Quick Reference Card - QC Metrics for Gene and Gene Design Expression Arrays* (P/N 702670) before you can use the information contained in this supplement to run the assay.

Reagents

Reagents for the GeneChip® Human Gene 1.0 ST Array (single array P/N 511545) comprise the following reagent sub-kits and associated part numbers:

- Ambion® WT Expression Kit (10 rxn) - P/N 4411973
- Ambion® WT Expression Kit (30 rxn) - P/N 4411974
- GeneChip® Eukaryotic Poly-A RNA Controls (100 rxn) - P/N 900433
- GeneChip® Expression 3'-Amplification Reagent Hybridization Controls (30 rxn) - P/N 900454
- GeneChip® Expression 3'-Amplification Reagent Hybridization Controls (150 rxn) - P/N 900457
- GeneChip® WT Terminal Labeling Kit (10 rxn) - P/N 900670
- GeneChip® WT Terminal Labeling Kit (30 rxn) - P/N 900671
- GeneChip® Hybridization, Wash & Stain Kit (30 rxn) - P/N 900720

Installing the Assay Software Module

To create a Human Gene 1.0 ST v1.0 test request, you must:

1. Install a certificate.
2. Install the Human Gene 1.0 ST v1.0 ASM.
3. Enter the test request.



NOTE: In most cases, an Affymetrix field service technician will install the certificate and assay software module.

Installing a Certificate

As a security measure, AMDS requires that you or the Affymetrix 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 the Human Gene 1.0 ST v1.0 test request data to the server.

You should have the certificate installed before installing the assay.

The Affymetrix 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.

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.

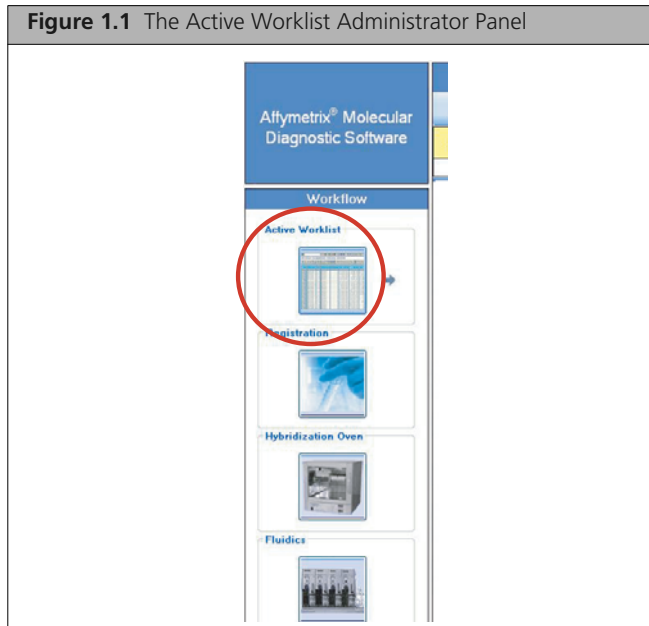
If you cannot access the server and have already installed a certificate, contact Affymetrix technical support.



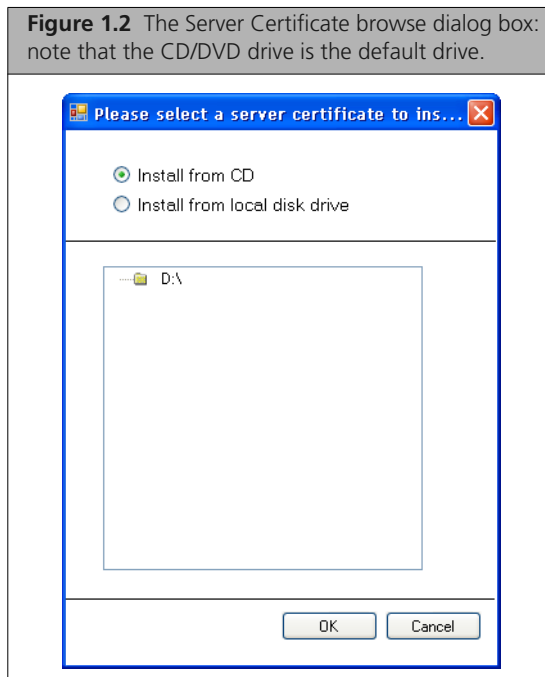
NOTE: You must be logged in with either Laboratory Supervisor or System Maintainer privileges to install a certificate.

Procedure for Installing a Certificate

The Active Worklist Administrator panel contains the **Assay Management** button and provides the starting point for installing a certificate (Figure 1.1).



1. Click the **Assay Management** button. The Assay Management window appears.
2. Click the **Install Certificate** button. The server certificate browse dialog box appears (Figure 1.2).



3. Select either the default drive, **Install from CD** (i.e., the internal drive D), or **Install from local disk drive**.
4. Browse for your desired xxxxx.cer file; where xxxxx is the name of the certificate that the installer of the RUO server provided to you.
5. Click the **OK** button or the **Cancel** button.
6. If successful, you are notified by a message “You have successfully added the server certificate “xxxxx.cer” to the AMDS trusted certificate store.”

If the certificate installation fails, AMDS notifies you with the particular algorithm error message. The software prevents you from accessing the server and from transferring data without the proper certificate installed.

7. Click the **OK** button on the message to return to the Assay Management screen.

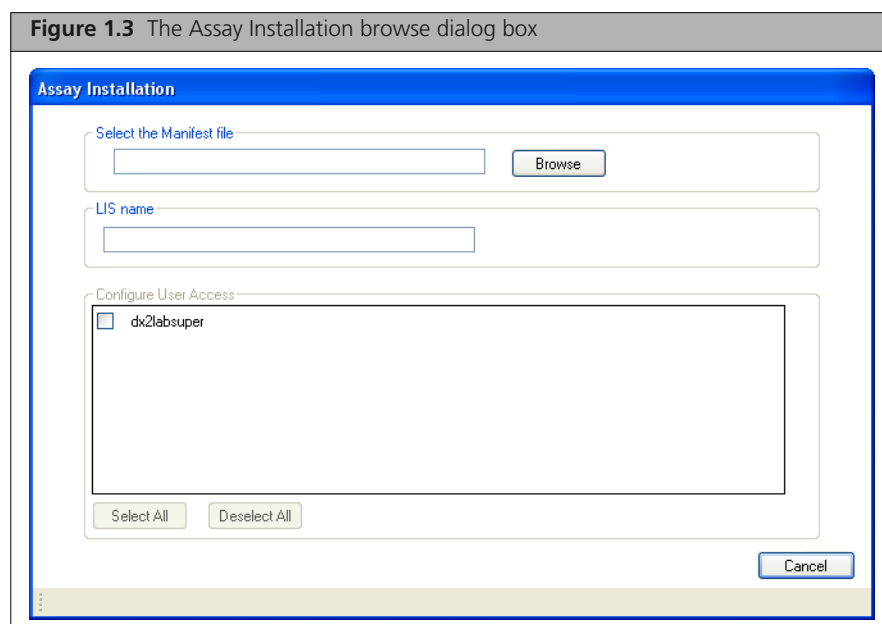
Installing the Human Gene 1.0 ST v1.0 ASM

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

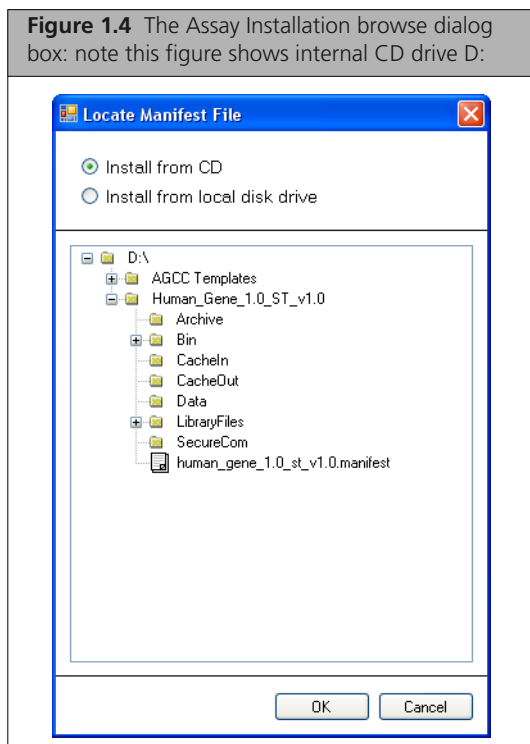


NOTE: You must be logged in with either **Laboratory Supervisor** or with **System Maintainer** privileges to install an Assay Software Module.

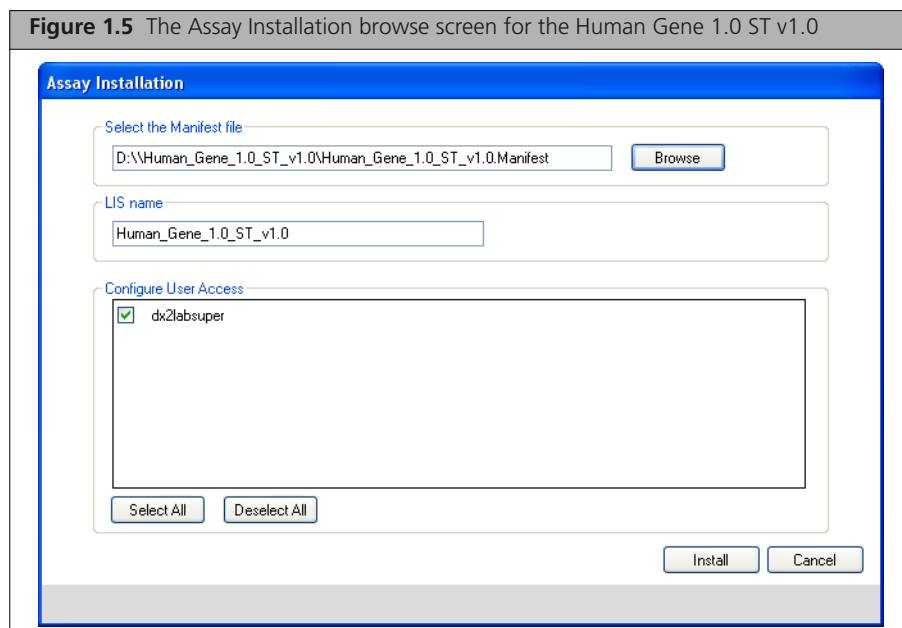
1. Click on the **Assay Management** button. The Assay Management window appears.
2. Click the **Install Assay** button. The Assay Installation browse dialog box appears (Figure 1.3).



3. Click the **Browse** button. The Assay Installation browse dialog box appears (Figure 1.4).

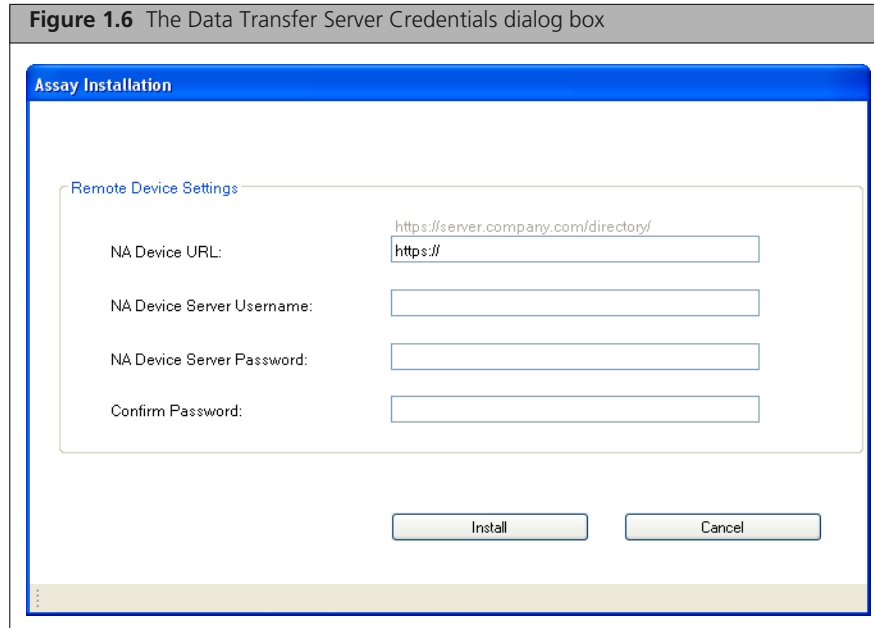


4. Select either the default drive, **Install from CD** (i.e., an internal CD drive D), or **Install from local disk drive** (i.e., the C: drive).
5. Browse for your desired xxxxx.Manifest file. In the present case, it is the Human_Gene_1.0_ST_v1.0.Manifest file. Typically you will access the manifest file from the D: drive. It should be in the folder similar to D:\Human_Gene_1.0_ST_v1.0. Browse for it and select it.
6. Click the **OK** button. The Assay Installation browse screen appears (Figure 1.5).



7. Choose those users who will have access to this assay either by selecting individual users, or by clicking the **Select All** button, or if you desire to start the selection over, click the **Deselect All** button.

8. Click the **Install** button or the **Cancel** button.
9. If you clicked the Install button, the Data Transfer Server credentials dialog box window appears (Figure 1.6).

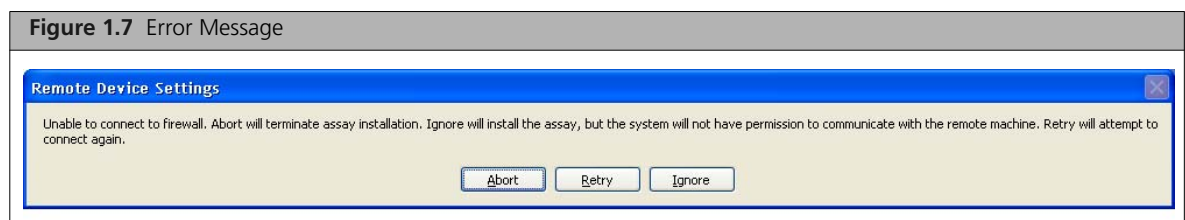


10. Locate and enter the **NA Device URL**, i.e., the secure URL server where AMDS will send the completed assay data (as an example: https://dx2webdavserver/RUO).
11. Enter the **NA Device Server Username**. This is your user name for the server, usually your workstation user name or network user credentials.
12. Enter the **NA Device Server Password**. This is your password for the server, usually your workstation user password or network user credentials.
13. Confirm your password.



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.

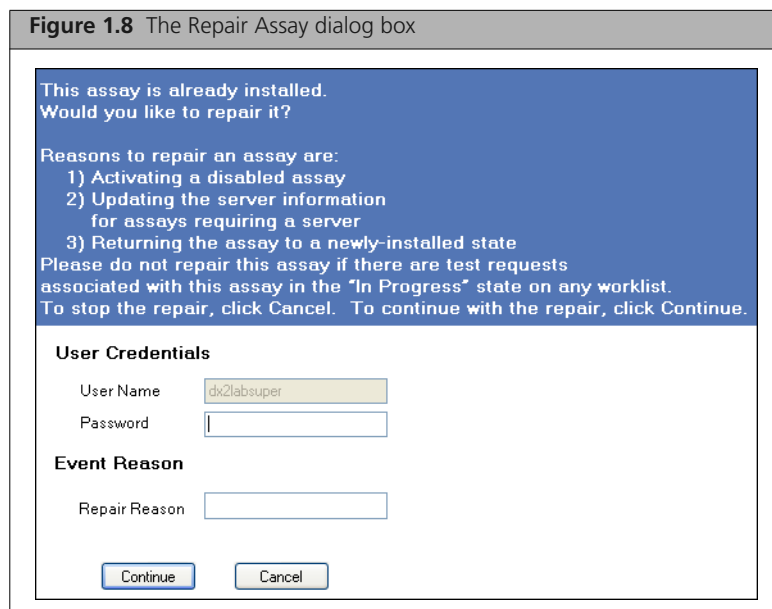
14. Confirm that the firewall is on and that your workstation is connected to the network.
15. Click the **Install** button or the **Cancel** button.
 - If the system does not pass your system's firewall settings, the following error message is displayed (Figure 1.7).



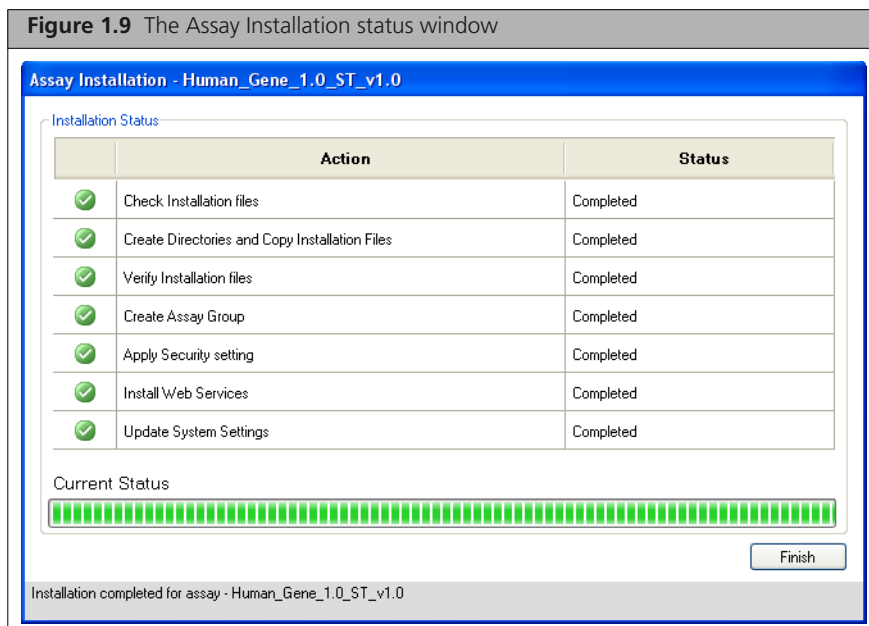
16. Click the **Abort** button to exit the assay installation procedure.
 - or click the **Retry** button to attempt another try.
 - or click the **Ignore** button to continue.

NOTE: If you select Ignore, the AMDS will still install the assay, but you will not have permission to communicate with any remote server.

17. If the same assay already exists in the system, a message appears asking if you would like to repair the assay (Figure 1.8).



18. Any AMDS user with valid AMDS credentials and with the right permissions can repair, or reinstall, the assay. You can include a reason, but this is optional.
19. Click the **Continue** button or the **Cancel** button. If you clicked Continue, an Assay Installation status window appears and displays the progress of the assay installation (Figure 1.9).
- If you clicked Install and if AMDS accepts your user ID and password, the system checks for the appropriate firewall parameters. The system also checks the proper server credentials, and displays an error message if it detects the wrong credentials. If the system detects the proper firewall setup, it accepts the assay installation and returns to the Assay Management screen. Setup is done.



- If AMDS detects no errors, it enables the **Finish** button.

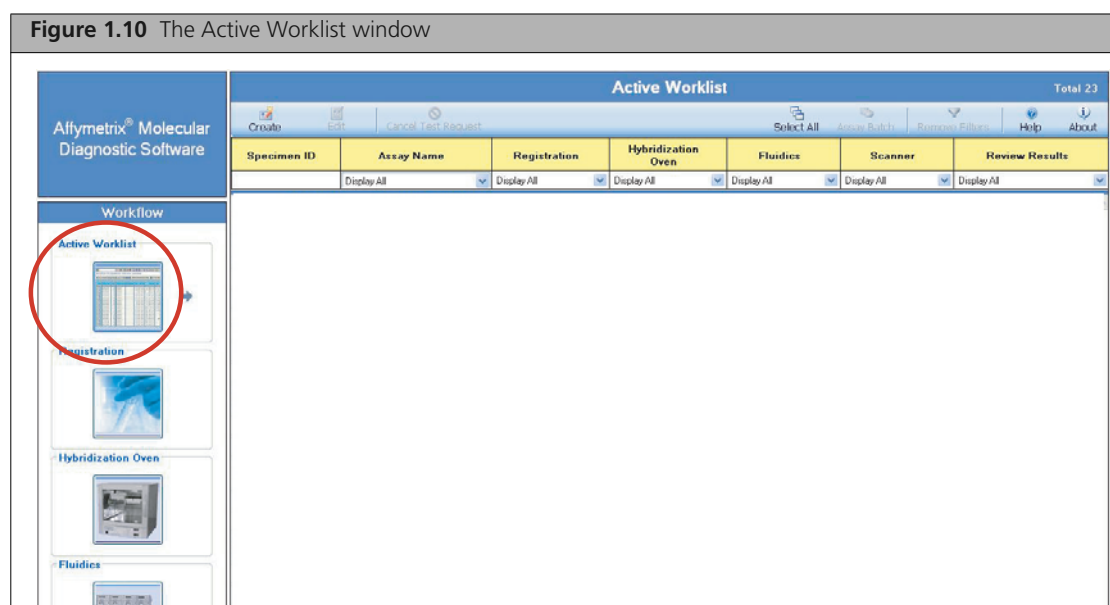
20. Click the **Finish** button to conclude the assay installation procedure and return to the Assay Management screen.

Setup is done. You may now begin to use the assay software module.

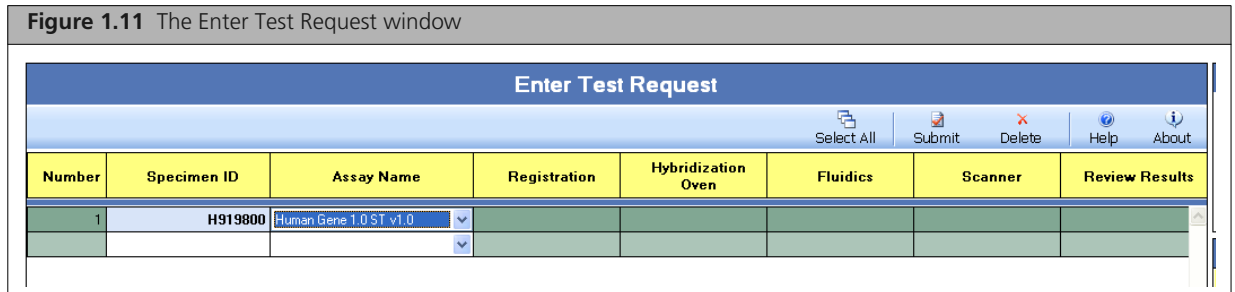
Creating the Test Request

You must be a Laboratory Supervisor, Technician or a Technologist in order to create a test request.

1. If you are not already in the Active Worklist window, select **Active Worklist** from the Workflow panel on the left (Figure 1.10). The Active Worklist panel opens.



2. Click the **Create** button on the toolbar of the Active Worklist. The Enter Test Request Screen appears (Figure 1.11).



3. Enter one or more **Specimen ID** and **Assay Name** combinations. The current Assay Name for the GeneChip® Human Gene 1.0 ST v1.0 ASM is Human Gene 1.0 ST v1.0.
4. Once you have made the entries, click the **Submit** button and the Enter Test Request screen closes. The software displays the Active Worklist window with the newly created test request(s) on the screen.



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 *Affymetrix® Molecular Diagnostic Software User's Guide (P/N 08-0261)*. Refer to that document for further instructions.

Adding Additional Information to the Specimen

After you add a specimen, 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.

Saving and editing specimen information requires an e-signature upon saving.

1. Click the desired **Specimen ID** field. The Additional Information dialog box opens (Figure 1.12).

Figure 1.12 The Specimen ID Additional Information dialog box

Additional Information: Human Gene 1.0 ST v1.0

GeneChip® Human Gene 1.0 ST Assay For Research Use Only.

Specimen ID: H919800

Bolded Value indicates new value to be saved. Enter Date as YYYY-MM-DD, Time as HH:MM:SS am/pm.

Field Name	Field Values
Patient ID	G55507193
Patient Last Name	Wilson
Patient First Name	Lynn
Sex	Female ▼
Date of Birth	2010-08-07
Specimen Type	Blood ▼
Specimen Size Unit	mL ▼
Specimen Size Value	2.1
Method of Collection	venipuncture
Collection Date	2011-01-15
Collection Time	4:43:00 PM
Requestor Last Name	Clark
Requestor First Name	Sydney
Requesting Institution	
Request Date	
Additional info 1	
Additional info 2	
Additional info 3	
Additional info 4	
Additional info 5	

Save and Close Close

2. Add the following information. This information includes:
 - Patient ID - manually entered as freeform text or read from a barcode.
 - Patient Last Name - manually entered as freeform text.
 - Patient First Name - manually entered as freeform text.
 - Sex-chosen from a drop-down menu. The menu includes the following choices:
 - Male
 - Female
 - Unknown
 - blank field
 - Date of Birth - manually entered with defined format. The format must be entered in an ISO 8601 format: that is with 4-digit year first, then month, then day. (e.g., 2001-11-09 for November 9, 2001) No other format is allowed.
 - Specimen Type - chosen from a drop-down menu
 - Blood
 - Solid Tissue
 - Soft Tissue
 - Saliva
 - Buccal Swab
 - Plasma
 - blank field

- Specimen Size Unit - manually entered or from a drop-down menu
 - mL
 - μ L
 - oz
 - mg
 - g
 - inch
 - cm
 - mm
 - blank field
 - Specimen Size Value - manually entered floating-point numeric value.
 - Method of Collection - manually entered as freeform text
 - Collection Date - manually entered as an ISO 8601 format date
 - Collection Time - manually entered using either a 12- or 24-hour time scale. (e.g., 1:15 pm or 13:15). The software will display the time using 12-hour time scale (e.g., 1:15 pm).
 - Requestor Last Name - manually entered as freeform text
 - Requestor First Name - manually entered as freeform text
 - Requesting Institution - manually entered as freeform text
 - Request Date - manually entered as an ISO 8601 format date
 - Additional Info 1-5 (Five Additional fields-manually entered as freeform text)
3. When you have completed adding the information, click **Save and Close** or just **Close** to exit without saving.
- When you click **Close** only, the following events may occur.
 - If you made no edits, the screen will close.
 - If you made edits, a pop-up asking **Would you like to save changes?** (with Yes, No, and Cancel) appears.
 - Click **Yes** in the dialog box and the software collects an e-signature, and then saves and closes the screen.
 - Click **No** and the software discards changes and closes the screen.
 - Click **Cancel** and the software returns to the Specimen ID additional information screen with edits preserved.

The Assay Information Screen—Adding Reagent Information

The Assay Information screen, or the Assay Home screen, provides you with a summary of all the specimen information, test request logs and pertinent reagent information for particular assay type.

The Assay Home screen has the following tabs/sub-screens:

- Reagent Information
- Specimen Report
- Test Request Log

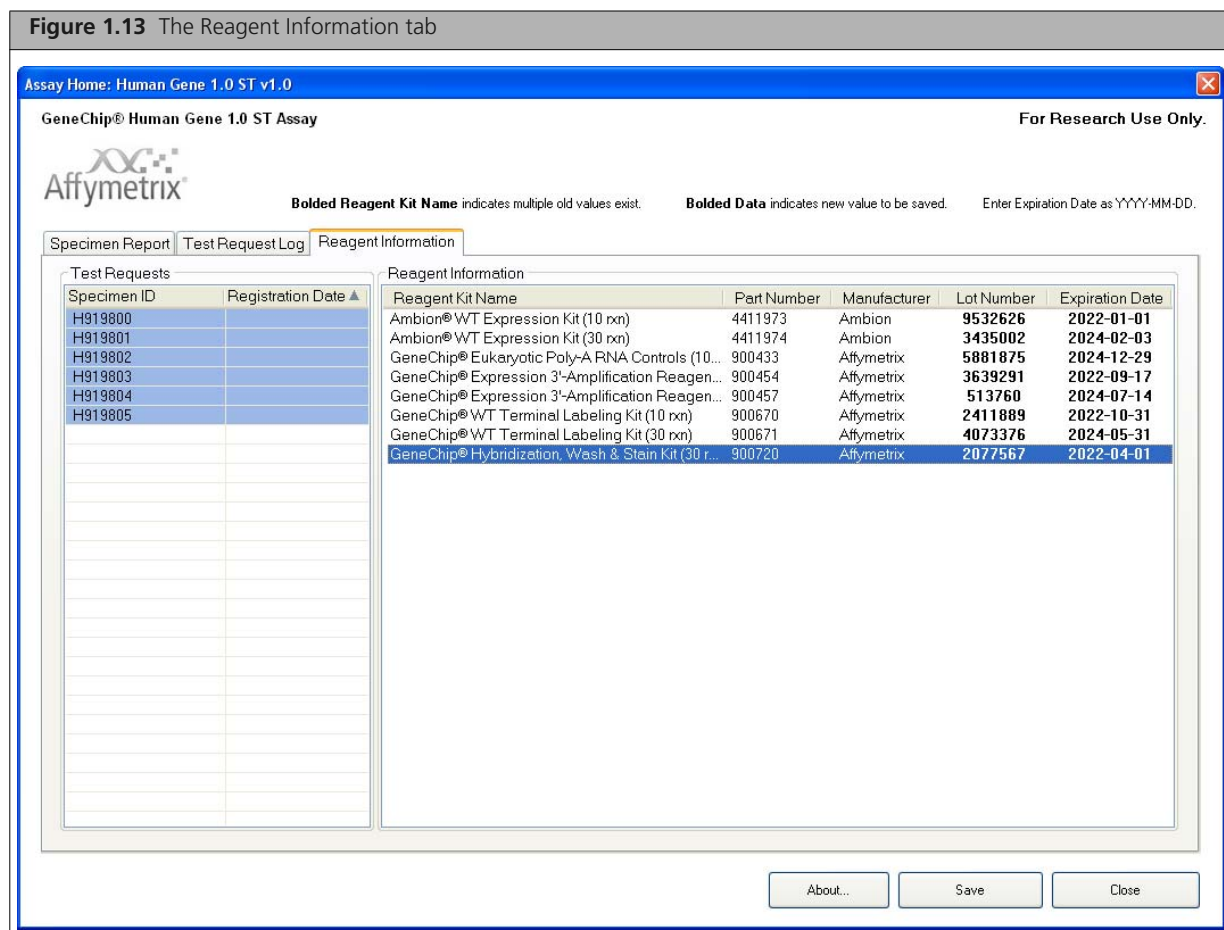
In any worklist window, in the Assay Name field, click on the Assay Name.

- The Assay Home (aka Assay Information) window appears (Figure 1.13). Reagent Information screen is the default tab.

Reagent Information Tab

Click the **Reagent Information** tab (Figure 1.13) to view current reagent information.

NOTE: If you select specimen IDs from the list on the left, then scan the reagent kit barcode, the software parses the reagent information and enters the lot number and expiration date into the correct fields for all selected test requests without manual intervention.



NOTE: Select one or more test requests on the Test Requests list on the left pane. Data is entered only for the test requests that you have selected.

In the Human Gene 1.0 ST v1.0 Assay Home screen, you can view the following reagent kit information:

- Reagent kit name
 - Ambion® WT Expression Kit (10 rxn) - P/N 4411973
 - Ambion® WT Expression Kit (30 rxn) - P/N 4411974
 - GeneChip® Eukaryotic Poly-A RNA Controls (100 rxn) - P/N 900433
 - GeneChip® Expression 3'-Amplification Reagent Hybridization Controls (30 rxn) - P/N 900454
 - GeneChip® Expression 3'-Amplification Reagent Hybridization Controls (150 rxn) - P/N 900457
 - GeneChip® WT Terminal Labeling Kit (10 rxn) - P/N 900670
 - GeneChip® WT Terminal Labeling Kit (30 rxn) - P/N 900671
 - GeneChip® Hybridization, Wash & Stain Kit (30 rxn) - P/N 900720
- Reagent kit part number information

- Reagent kit manufacturer information
- Reagent lot number
- Reagent expiration date

The Reagent Kit Name, Manufacturer, Part Number, Lot No. and Expiration Date are not required to run the assay.

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.

1. For any reagent with a manufacturer of “Affymetrix”, select the test requests in the test request list on the left side of the Reagent Information screen. Scan the barcodes from the reagents you used. The software will enter the corresponding lot number and expiration date into the appropriate fields. Remember 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.
2. Click the **Save** button.
3. When you click **Close** only, the following events may occur.
 - If you made no edits, the screen will close.
 - If you made edits, a pop-up **Would you like to save changes?** with Yes, No, and Cancel buttons appears.
 - Click **Yes** in the dialog box and the software saves and closes the screen.
 - Click **No** and the software discards the edits and returns to the Reagent Information screen.
 - Click **Cancel** and the software returns to the Reagent Information screen with edits preserved.



NOTE: You can also enter the reagent kit information manually by selecting test requests in the left side of the screen, 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 Affymetrix, Inc.

The Human Gene 1.0 ST v1.0 remembers the association between a reagent kit and expiration date. Scenarios are as follows:

1. Enter a lot number and expiration date for the first time, click **Save**.
 - AMDS saves the data.
2. Enter a lot number already associated with another test request. AMDS auto-populates the expiration date that you had previously used.
 - Click **Save** and the data is saved for all associated test requests.
3. Enter a lot number already associated with another test request. AMDS auto-populates the expiration date that you had previously used. Modify expiration date and click **Save**.

The software will display a pop-up with the following message (or words to this effect): “Do you want to save this expiration date for all other test requests with this lot number?”

- Click **OK** or **Cancel**.
 - OK saves this information for all test requests,
 - Cancel returns to the screen with edits preserved.

Special Note Regarding the Changing of Expiration Dates

If you change the expiration date for a previously entered lot number (see [step 3](#) above), and choose to save this change for all the test requests with this lot number, the application displays the following message:

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

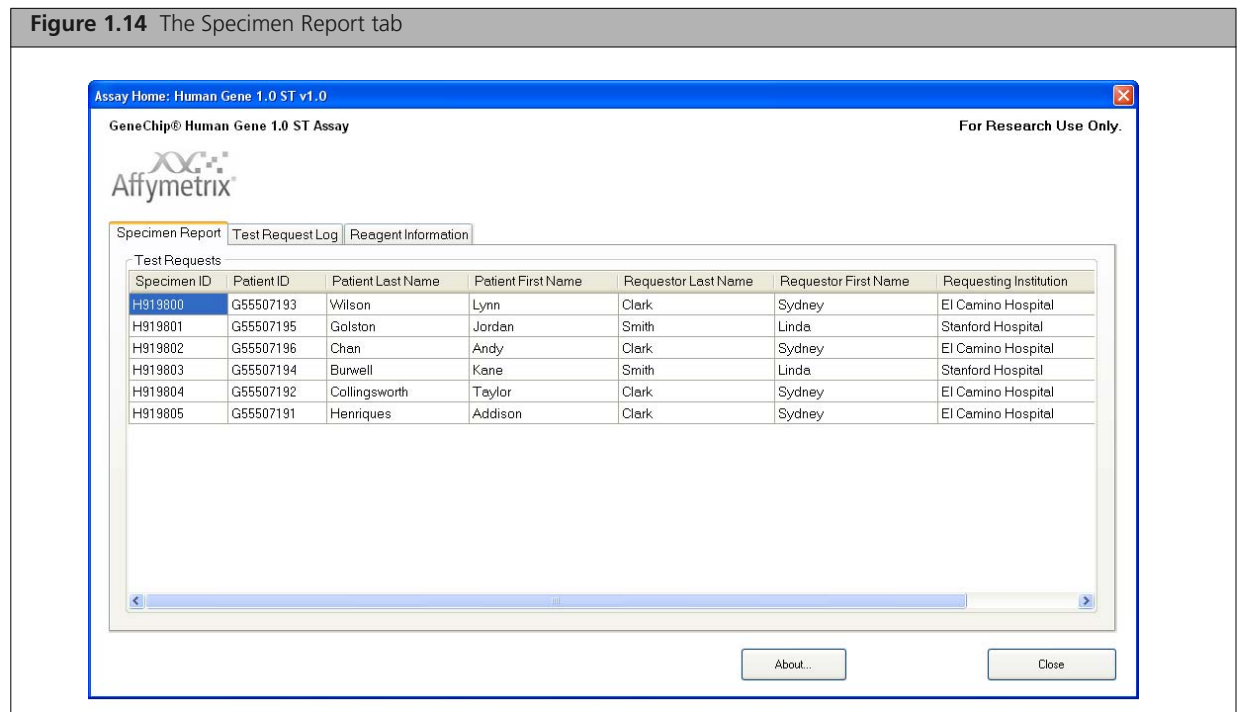
“This affects <count> Test Requests.”

The application remembers the new expiration date and updates all the test requests with those lot number(s), which have not yet started scanning, with the correct expiration date(s).

If you click **Cancel**, the software returns to the Reagent Information Screen with all edits preserved.

Specimen Report Tab

Click the **Specimen Report** tab (Figure 1.14) to view all the specimen IDs associated with that assay type (in this case the Human Gene 1.0 ST v1.0).



Click the **Specimen Report** tab to view all specimen IDs associated with that assay type. You can view the:

- Specimen ID
- Patient_ID
- Patient Last Name
- Patient First Name
- Requestor Last Name
- Requestor First Name
- Requesting Institution
- Request Date

Test Request Log Tab

Click the **Test Request Log** tab (Figure 1.15) to view all the test requests associated with that assay type. Each test request will include information regarding the following:

- Date (of the log entry)
- Time (of the log entry)
- User (when the log entry was created)
- Type (of log entry)
- Subsystem (associated with log entry)

- Short Message (associated with the log entry)
- Long Message (related to the selected short message)

Figure 1.15 The Test Request Log tab

Assay Home: Human Gene 1.0 ST v1.0

GeneChip® Human Gene 1.0 ST Assay For Research Use Only.

Specimen Report Test Request Log Reagent Information

Test Requests

Specimen ID	Date	Time	User	Type	Subsystem	Short Message
H919800	4/12/2012	1:20 PM	System	Workflow	WebService	State Change to CreatedState
H919801	4/12/2012	1:24 PM	e329b08f-a98c...	Workflow	GUI	Successfully saved test request info
H919802	4/12/2012	1:24 PM	e329b08f-a98c...	Workflow	GUI	State Changed to ReadyForAnalysis
H919803	4/12/2012	1:27 PM	dx2labsuper	E-Signature	GUI	E-signature added for save on Edit
H919804	4/12/2012	1:27 PM	e329b08f-a98c...	Workflow	GUI	Successfully saved test request info
H919805	4/12/2012	1:27 PM	e329b08f-a98c...	Workflow	GUI	State Changed to ReadyForAnalysis

Long Message

Saved these [Name|Value] pairs: [Patient ID|G55507195] [Patient Last Name|Golston] [Patient First Name|Jordan] [Sex|Male] [Date of Birth|1956-08-26] [Specimen Type|Blood] [Specimen Size Unit|mL] [Specimen Size Value|4.8] [Method of Collection|venipuncture] [Collection Date] [Collection Time] [Requestor Last Name|Smith] [Requestor First Name|Linda] [Requesting Institution|Stanford Hospital] [Request Date] [Additional info 1] [Additional info 2] [Additional info 3] [Additional info 4] [Additional info 5]

About... Close

Batching Additional Test Request Information

If you want to enter or edit the same information for multiple test requests at the same time, you can use the Batch Edit feature.



NOTE: You cannot associate any additional information with test requests after scanning has started. You cannot save your edits, and, if you attempt to save, the software displays an error message.

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 dialog box appears (Figure 1.16)
The left column lists the selected Specimen IDs
3. Enter or change in the right dialog box:
 - Sex (of the test request subject)
 - Specimen Type
 - Requestor Last Name
 - Requestor First Name
 - Requesting Institution
 - Request Date
 - Additional Info 1-5 (five user-defined fields)
4. Click the **Save and Close** button to save your changes and close the window.
5. Click the **Close** button. If you did not make any edits, the Assay Batch screen closes. If you made any edits, a Yes, No, Cancel window appears.
 - Click **Yes**, **No** or **Cancel**.
 - Yes saves this information.
 - No discards all changes.
 - Cancel returns you to the Assay Batch screen with edits preserved.



NOTE: You must save this information before you begin the scanning step. This is to ensure the safety of the data. Do not attempt to add or edit this information after scanning.

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 file
- .AUDIT
- .CEL file
- .DAT file
- .GRD file
- .log file
- .MD5 file

The .MD5 file is a checksum file. You can use a utility such as FastSum (Windows®) or md5sum (Linux) to confirm that AMDS has transferred all the files correctly.

- All Specimen Information descriptor labels and their corresponding data fields which may be filled in or not
- All tracked Reagent Information descriptor labels and their corresponding data fields which may be filled in or not

The AMDS confirms that the data has completed transfer successfully by the following two criteria:

- the assay module detects no exceptions upon transferring
- the assay module confirms that every file listed as transferred indeed exists on the server

Once AMDS transfers the files to the server, AMDS will place all the associated files in a folder named Human_Gene_1.0_ST_v1.0. This folder resides on the server. All data files are intermingled. Upon transfer, the software assigns file names: test request creation date and time + "_" + 3 digits + "_" + specimenID + original extension (.DAT, .CEL, etc.). This makes it easy to determine which files are associated with a particular test request.



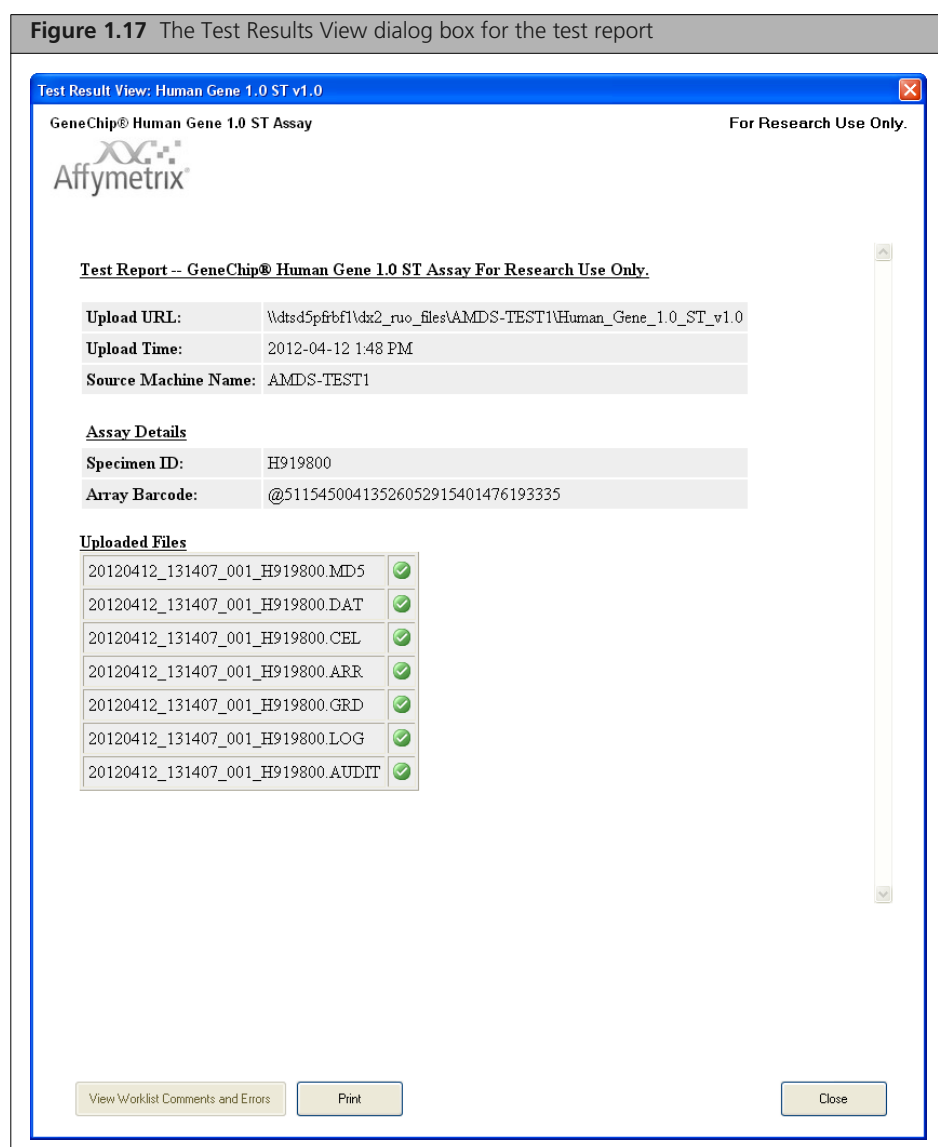
NOTE: Upon successful data transfer, AMDS deletes, from the local AMDS hard drive, the .dat and .cel files for the transferred test requests.

Reviewing the Test Report

When you have completed all the remaining assay steps (Registration, Hybridization, Wash/Stain, Scanning, etc.), the test request moves to the Non-Active Worklist with a hyperlinked date/time stamp in the Review Results field of the Test Request record.

To view the test result report, you must be in the Non-Active Worklist window.

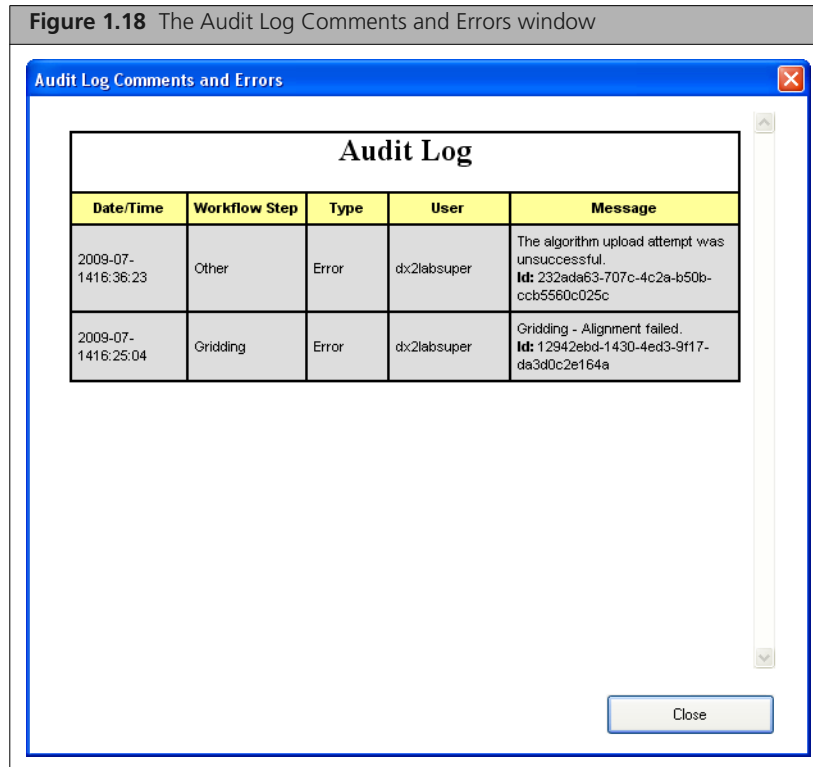
1. Click the date/time hyperlink for the desired test request record. The Test Results dialog box appears (Figure 1.17).



The reports displays:

- Upload details
 - Upload URL (where the files went)
 - Upload Time
 - Source Machine Name
- Assay Details
 - Specimen ID
 - Array Barcode

- Uploaded files (the list of the files that were transferred)
 - .ARR file
 - .AUDIT
 - .CEL file
 - .DAT file
 - .GRD file
 - .log file
 - .MD5 file
- Click the **Close** button to close the results screen without doing anything.
- Click the **Print** button to print the results to the default printer.
- Click the **View Worklist Comments and Errors** button.
 - The Audit Log Comments and Errors window opens (Figure 1.18). This window displays any comments or errors that the user or AMDS application associated with that test request.



Ordering Information

Table 1.1 lists the Human Gene 1.0 ST v1.0 reagents and arrays and associated part numbers.

Table 1.1

Name	P/N	Supplier
Ambion® WT Expression Kit (10 rxn)	4411973	Ambion
Ambion® WT Expression Kit (30 rxn)	4411974	Ambion
GeneChip® Eukaryotic Poly-A RNA Controls (100 rxn)	900433	Affymetrix
GeneChip® Expression 3'-Amplification Reagent Hybridization Controls (30 rxn)	900454	Affymetrix
GeneChip® Expression 3'-Amplification Reagent Hybridization Controls (150 rxn)	900457	Affymetrix
GeneChip® WT Terminal Labeling Kit (10 rxn)	900670	Affymetrix
GeneChip® WT Terminal Labeling Kit (30 rxn)	900671	Affymetrix
GeneChip® Hybridization, Wash & Stain Kit (30 rxn)	900720	Affymetrix
GeneChip® Human Gene 1.0 ST Array (2 arrays)	901085	Affymetrix
GeneChip® Human Gene 1.0 ST Array (6 arrays)	901086	Affymetrix
GeneChip® Human Gene 1.0 ST Array (30 arrays)	901087	Affymetrix

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