

ThermoFisher
S C I E N T I F I C

Specialty TAP/TAC Configurator Tool User Guide

April 2019

The world leader in serving science

Table of Contents

- [Background](#)
- [Accessing the Tool](#)
- [Quick Estimate](#)
- [New Configuration](#)
- [My Assay Library](#)
- [Submitted Request](#)

Background

Custom TaqMan Array Plates (TAP) and TaqMan Array Cards (TAC) are orderable online in the following formats:

- [Standard 0.2mL 96-well TAP containing predesigned gene expression assays](#)
- [Fast 0.1mL 96-well TAP containing predesigned gene expression assays](#)
- [384-well microfluidic TAC containing predesigned gene expression assays](#)
- [384-well microfluidic TAC containing predesigned miRNA assays](#)
- [384-well microfluidic TAC containing predesigned Advanced miRNA assays](#)

Why would I order Specialty TAP/TAC?

- You have a Custom Assay ID that you want spotted on your TAP/TAC.
- You want gene expression assays spotted in 384-well plates.
- You want miRNA assays spotted in 96- or 384-well plates.
- You want SNP/CNV/Mutation Detection assays spotted in TAP/TAC.
- You want duplexed assays spotted in TAP/TAC.
- You don't want the manufacturing controls that are required on regular custom TAP/TAC.
- You want a layout not supported by the regular custom TAP/TAC configurator tools.
- You have assays manufactured in our Specialty Oligos lab that you want spotted on your plate/card.
 - Assays with non-standard oligo concentrations.
 - Assays with extra oligos (e.g. 3 primers and 1 probe).
 - Assays with TAMRA or QSY probes.
 - Assays with oligos containing degenerate nucleotides.

Background

Manual method of submitting a Specialty TAP/TAC order:

- Specialty TAP – fill out [request form](#) and e-mail to Specialty_Plates@thermofisher.com
- Specialty TAC – fill out [request form](#) and e-mail to Specialty_Cards@thermofisher.com

New, improved method for submitting a Specialty TAP/TAC order:

- Configure TAP/TAC using the new online configurator tool.
- No Excel file submission is necessary – all necessary information is transmitted from the online tool to the Specialty ordering team.
- The remainder of the slides are a guide on how to use the new online configurator tool.

Limitations to the Specialty TAP/TAC Configurator Tool:

- Orders requiring assays manufactured by Specialty Oligos must be submitted using the Excel submission forms.
- Orders requiring duplexed assays must also use the Excel submission forms.

Accessing the Specialty TAP/TAC Configurator Tool

Go to <http://www.specialty-taqman-arrays.com>

- Log in using your thermofisher.com username and password.

The screenshot displays the website interface for configuring specialty plates and cards. On the left, there is a section titled "Configure Your Specialty Plates or Cards" with descriptive text and several links. On the right, there is a "Login" section with input fields for "Username / E-mail" and "Password", a "Sign In" button, and links for "Having trouble signing in?" and "Dont have an account? Register here".

Configure Your Specialty Plates or Cards

When additional flexibility is needed to configure your choice of TaqMan® assays, select Specialty Plates or Cards. Use this tool to configure your Specialty Plates or Cards and we will provide you a quote to order.

To configure and order arrays that are available as catalog products, use one of these links:

- [Custom TaqMan® 96-well or 96-well fast Plates with predesigned GEx assays](#)
- [Custom TaqMan® Array Cards with predesigned GEx assays](#)
- [Custom TaqMan® Array Cards with predesigned miRNA assays](#)
- [Custom OpenArray® plate](#)

Login

Username / E-mail

Password

Sign In

[Having trouble signing in?](#)

Dont have an account? [Register here](#)

Links to custom TAP/TAC configurator tools (i.e. non-Specialty).

If you don't already have a thermofisher.com account, click here to register

Specialty TAP/TAC Configurator Tool Functions

First screen after logging in:

Configure Your Specialty Plates or Cards

? Logout



Quick Estimate

Request a price estimate for future Specialty Plates or Cards project



New Configuration

Submit a custom configuration to receive a quote for your Specialty Plates or Cards



My Assay Library

View, add or modify assays to use on Specialty Plates or Cards



Submitted Requests

View saved or submitted quote requests for Specialty Plates or Cards

If you have questions, please email Specialty_Plates@thermofisher.com or Specialty_Cards@thermofisher.com

Configure Your Specialty Plates or Cards

? Logout



Quick Estimate

Request a price estimate for future Specialty Plates or Cards project



New Configuration

Submit a custom configuration to receive a quote for your Specialty Plates or Cards



My Assay Library

View, add or modify assays to use on Specialty Plates or Cards



Submitted Requests

View saved or submitted quote requests for Specialty Plates or Cards

If you have questions, please email Specialty_Plates@thermofisher.com or Specialty_Cards@thermofisher.com

Request a price estimate for Specialty TAP/TAC projects

Quick Estimate ? Back Logout

Enter the quantity

Select Application

- GEX - Gene Expression / pathogen detection
- SNP/DME - Genotyping / drug metabolism
- Advanced miRNA - Quantitate mature miRNAs with universal reverse transcription
- Classic miRNA - Quantitate mature miRNAs with miRNA-specific reverse transcription
- CNV - Copy Number Variant analysis
- castPCR - Detection of somatic mutations
- Other

Select Product Type

Number of inventoried assays

Number of made-to-order or custom assays

Number of assays with custom formulation

Special Request

Region

Email Address

Specialty team will follow up with an estimate based on:

- Quantity
- Assay type
- Plate/card type
- Number of inventoried assays
- Number of made-to-order assays
- Region

New Configuration

Configure Your Specialty Plates or Cards

? Logout



Quick Estimate

Request a price estimate for future Specialty Plates or Cards project



New Configuration

Submit a custom configuration to receive a quote for your Specialty Plates or Cards



My Assay Library

View, add or modify assays to use on Specialty Plates or Cards



Submitted Requests

View saved or submitted quote requests for Specialty Plates or Cards

If you have questions, please email Specialty_Plates@thermofisher.com or Specialty_Cards@thermofisher.com

New Configuration

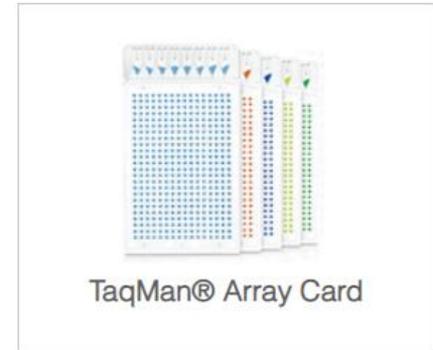
Choose 96-well TAP, 384-well TAP, or TAC

Configure Your Specialty Plates or Cards

? Cancel Logout

New Configuration

Design your Specialty plates or cards



New Configuration

Select Format screen

New Configuration - TaqMan® Array Plate (96-well)

Select Format

Select Assays

Configure Array

Enter Quantity

Request Quote

Select a format based on the number of assays and samples you are running

*Formats 48 and 96 are not recommended with SNP assays, as 3 replicates are required to perform cluster analysis.

Format #	Maximum Number of Assays	Number of Samples	View Layout	Select
1	1	96	View Layout	Select
8	8	12	View Layout	Select
8	8	12	View Layout	Select

“View Layout” expands window to display plate layout

Format 8 Custom Format 8

A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
D	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
E	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
F	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
G	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
H	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	1	2	3	4	5	6	7	8	9	10	11	12			

Click “Select” when ready to proceed.

New Configuration

Select Assays screen

New Configuration - TaqMan® Array Plate (96-well Format 8)

 Select Format **Select Assays** Configure Array Enter Quantity Request Quote

Select the assays you would like to include on your array

Import Assay List

Add new assay

Select from My Assay Library

Check here if you do not want your assays to be pre-populated into your array

0 out of 8 assays have been selected 

New Configuration

Select Assays screen – Import Assay List workflow

New Configuration - TaqMan® Array Plate (96-well Format 8)



Select the assays you would like to include on your array

Buttons for assay selection:

- Import Assay List** (highlighted with a red border)
- Add new assay
- Select from My Assay Library

Check here if you do not want your assays to be pre-populated into your array

0 out of 8 assays have been selected [i](#)

New Configuration

Select Assays screen – Import Assay List – Upload a list of Assay IDs

- Upload assay export files from TaqMan assay search tool.
- Or download the import template, enter assay list into template, and upload.
- Advantage of uploading – capture gene symbol and other data along with Assay ID.

New Configuration
8)

Select Format

Select the assays you

Import Assay List

Check here if you

0 out of 8 assays have

Import Assay X

Upload a list of Assay IDs

choose file

Download Import Template

or

Copy and paste a list of Assay IDs

Add to layout

New Configuration

Select Assays screen – Import Assay List – Copy and paste a list of Assay IDs

- Copy and paste from an Excel file
- Only the Assay ID will be captured
- After clicking “Add to layout” → Assay IDs will be checked for typos; an error message will list any predesigned Assay IDs that are invalid.

The screenshot shows a dialog box titled "Import Assay" with a close button (X) in the top right corner. The dialog is split into two main sections. The left section is titled "Upload a list of Assay IDs" and contains a "choose file" button and a "Download Import Template" link. The right section is titled "Copy and paste a list of Assay IDs" and features a large text input field with a red border, a small "or" button to its left, and an "Add to layout" button below it. The background shows a partially visible "New Configuration" screen with a "Select Format" button and an "Import Assay List" button.

New Configuration

Select Assays screen – Import Assay List

- Whether you upload a file or copy/paste a list of assays, the tool will automatically add the assays to the layout and advance to you the Configure Array screen.

New Configuration - TaqMan® Array Plate (96-well Format 8)

Progress bar: ✓ Select Format ✓ Select Assays **Configure Array** Enter Quantity Request Quote

Drag and drop assays from your assay list to the array map to arrange your layout
To duplicate an assay in the array, click on the colored circle, then click copy. Click on the desired location and then click Paste.
To remove an assay, click on the colored circle, then click Clear.

Buttons: Copy Paste Clear Clear Entire Array

Assay ID / Name ▾

	1	2	3	4	5	6	7	8	9	10	11	12
A												
B												
C												

Assay list:

- Hs99999905_m
- Hs99999909_m
- Hs99999911_m
- Hs99999908_m

New Configuration

Select Assays screen – Select from My Assay Library workflow

New Configuration - TaqMan® Array Plate (96-well Format
8)



Select the assays you would like to include on your array

Import Assay List Add new assay **Select from My Assay Library**

Check here if you do not want your assays to be pre-populated into your array

0 out of 8 assays have been selected [i](#)

New Configuration

Select Assays screen – Select from My Assay Library

- See next section to learn how to add assays to your library.
- Click “Add to Array” for each assay you want in your plate.
- Click “Return” in top right corner when all assays have been selected.

Select assays from My Assay Library

0 out of 8 assays have been selected

Search by Assay ID or Target Name or Project Name

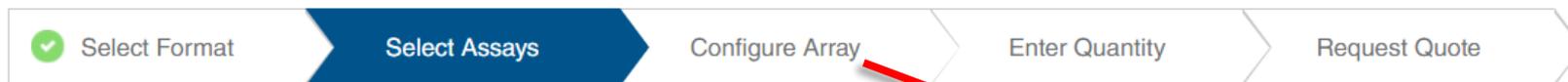
prev 1 2 next 20 ▾

<input type="checkbox"/> Select All	Project	Assay ID	Gene Symbol	Notes	Date Created	Date Updated	Action
<input type="checkbox"/>		AHI1S59			4/17/2019	4/17/2019	Edit
<input type="checkbox"/>		Hs99999911_m1	TFRC		4/16/2019	4/16/2019	Edit
<input type="checkbox"/>		Hs99999905_m1	GAPDH		4/16/2019	4/16/2019	Edit
<input type="checkbox"/>		Hs99999909_m1	HPRT1		4/16/2019	4/16/2019	Edit

New Configuration

Select Assays screen – Select from My Assay Library

- After selecting assays, you are taken back to Select Assays screen.



Select the assays you would like to include on your array

Buttons: **Import Assay List**, **Add new assay**, **Select from My Assay Library**, **Remove**

Check here if you do not want your assays to be pre-populated into your array

8 out of 8 assays have been selected ?

Select	Assay ID / Name	Target Name	Special Notes	Date created
<input checked="" type="checkbox"/>	Hs99999905_m1	GAPDH		4/16/2019
<input type="checkbox"/>	Hs99999909_m1	HPRT1		4/16/2019
<input type="checkbox"/>	Hs99999911_m1	TFRC		4/16/2019

Click "Configure Array" to advance to the next step. Assay will be pre-populated into the layout by default.

Check this box before clicking "Configure Array" to leave the layout blank.

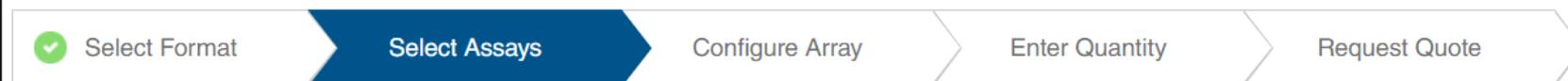
Chosen assays appear here.

Need to make a change? Check the box and click "Remove"

New Configuration

Select Assays screen – Add New Assay workflow

New Configuration - TaqMan® Array Plate (96-well Format 8)



Select the assays you would like to include on your array

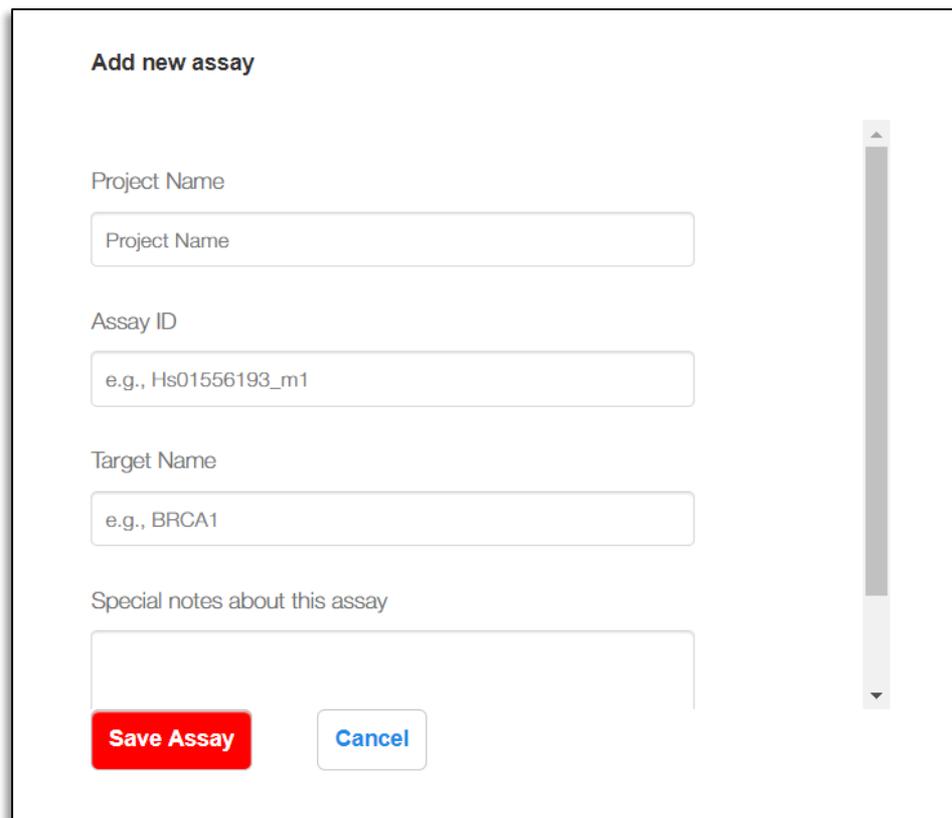
Check here if you do not want your assays to be pre-populated into your array

0 out of 8 assays have been selected [i](#)

New Configuration

Select Assays screen – Add New Assay workflow

- Allows you to add a single new assay.



The screenshot shows a web form titled "Add new assay". It contains four input fields: "Project Name" (with placeholder text "Project Name"), "Assay ID" (with placeholder text "e.g., Hs01556193_m1"), "Target Name" (with placeholder text "e.g., BRCA1"), and "Special notes about this assay" (a larger text area). At the bottom of the form are two buttons: a red "Save Assay" button and a white "Cancel" button with a blue border. A vertical scrollbar is visible on the right side of the form.

- NOTE – assays added during configuration, either by importing a list or adding a single assay, will be saved automatically to your assay library.

New Configuration

Configure Array screen – when assays are automatically pre-populated

New Configuration - TaqMan® Array Plate (96-well Format)

8)

Click “Select Assays” to go back and modify list of assays

Select Format Select Assays **Configure Array** Enter Quantity Request Quote

Drag and drop assays into the array layout to duplicate or remove assays. To duplicate or remove assays, click on the desired location in the array layout.

Choose to view gene symbols rather than Assay ID (only possible if assay list was uploaded with gene symbol)

Click “Enter Quantity” when layout is complete

Copy Paste Clear Clear Entire Array

Easily clear the array

Assay ID / Name

	1	2	3	4	5	6	7	8	9	10	11	12
A												
B												
C												

New Configuration

Configure Array screen – when layout is blank

Progress bar: ✓ Select Format ✓ Select Assays **Configure Array** Enter Quantity Request Quote

Drag and drop assays from your assay list to the array map to arrange your layout
To duplicate an assay in the array, click on the colored circle, then click copy. Click on the desired location and then click Paste.
To remove an assay, click on the colored circle, then click Clear.

Click "Enter Quantity" when layout is complete

Instructions for filling in the layout

Click Assay ID and drag/drop into desired position

Buttons: Copy, Paste

Assay ID / Name

	1	2	3	4	5	6	7	8	9	10	11	12
A	1	1	1	1	1	1	1	1	1	1	1	1
B	2	2	2	2	2	2	2	2	2	2	2	2
C	3	3	3	3	3	3	3	3	3	3	3	3
D	4	4	4	4	4	4	4	4	4	4	4	4

Assay List:

- Hs99999910_m
- Hs99999904_m
- Hs99999902_m
- Hs00172187_m
- Hs99999906_m

New Configuration

Enter Quantity screen

Progress bar: Select Format | Select Assays | Configure Array | **Enter Quantity** | Request Quote

Enter Study Name

Enter the Quantity **Minimum QTY = 10**

Select Application

- GEx - Gene Expression / pathogen detection
- SNP/DME - Genotyping / drug metabolism
- Advanced miRNA - Quantitate mature miRNAs with universal reverse
- Classic miRNA - Quantitate mature miRNAs with miRNA-specific rever
- CNV - Copy Number Variant analysis
- castPCR - Detection of somatic mutations
- Other

Special Request

Instrument Type **?**

Select Plate Type

Select reaction volume

Include PreAmp Pool

Click "Request Quote" when details are complete

Enter the following:

- Study name
- Quantity
- Application/assay type
- Special request
- Instrument type
- Plate type
- Reaction volume
- Include PreAmp pool

Hover over "?" to see what instruments are supported

New Configuration

Request Quote screen

✓ Select Format > ✓ Select Assays > ✓ Configure Array > ✓ Enter Quantity > **Request Quote**

Provide your contact information, shipping address, and confirm your request. After you submit request, a Thermo Fisher Scientific representative will follow up with you and provide you with a quote and ordering instructions.

Contact and Shipping

Enter Contact Details

Company/Institution Save contact information

Contact Name

Shipping Address

Email

Phone

Request Quote

Request Summary

TaqMan® Array Plate (96-well Format 8)

Format	8
Qty	20
Application	Gene Expression
Plate type	96-well-fast

Click "Request Quote" to finish the process

Configure Your Specialty Plates or Cards



Logout



Quick Estimate

Request a price estimate for future Specialty Plates or Cards project



New Configuration

Submit a custom configuration to receive a quote for your Specialty Plates or Cards



My Assay Library

View, add or modify assays to use on Specialty Plates or Cards



Submitted Requests

View saved or submitted quote requests for Specialty Plates or Cards

If you have questions, please email Specialty_Plates@thermofisher.com or Specialty_Cards@thermofisher.com

My Assay Library

View, add or modify assays to use on Specialty TAP/TAC

- Recommended for customers that have recurring Specialty TAP/TAC orders.
- Assays imported during the TAP/TAC configuration workflow will appear here.

My Assay Library

[?](#) [Back](#) [Logout](#)

[Import Assay List](#) [Add new assay](#)

[Download Import Template](#)

Search by Assay ID or Target Name or Project Name prev **1** next 20 ▾

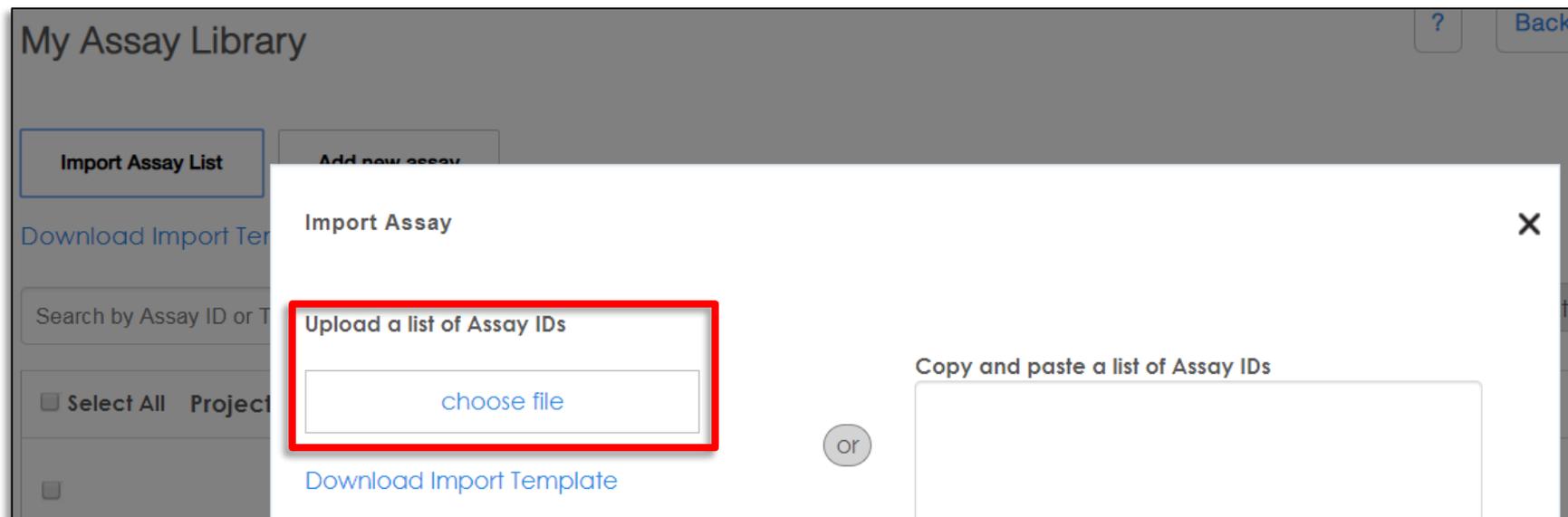
<input type="checkbox"/> Select All	Project ▾	Assay ID ▾	Gene Symbol ▾	Notes	Date Created ▾	Date Updated ▾	Action
<input type="checkbox"/>		Hs00001171_mu			4/16/2019	4/16/2019	Edit
<input type="checkbox"/>		Hs000000005_rm			4/16/2019	4/16/2019	Edit

List of assays that have already been added to the library.

My Assay Library

Import Assay List – Upload a list of Assay IDs

- Upload assay export files from TaqMan assay search tool.
- Or download the import template and fill in.
- Advantage of uploading – capture gene symbol and other data along with Assay ID.



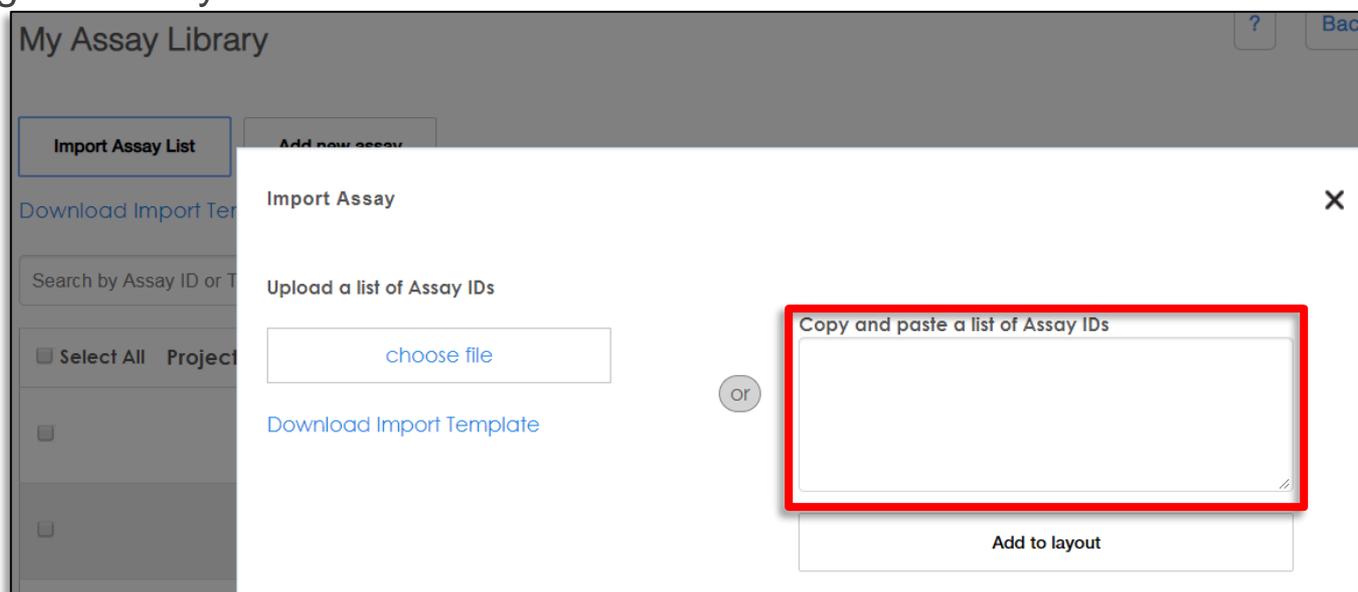
<input type="checkbox"/> Select All	Project	Assay ID	Gene Symbol	Notes	Date Created	Date Updated	Action
<input type="checkbox"/>		Hs99999911_m1	TFRC		4/16/2019	4/16/2019	Edit
<input type="checkbox"/>		Hs99999905_m1	GAPDH			6/2019	Edit
<input type="checkbox"/>		Hs99999909_m1	HPRT1			6/2019	Edit

Assays uploaded from assay search tool export file – gene symbol captured along with Assay ID

My Assay Library

Import Assay List – Copy and paste a list of Assay IDs

- Copy and paste from an Excel file
- Only the Assay ID will be captured in the Assay Library.
- Assay ID validation will occur after clicking “Add to layout” – error message will appear if any pre-designed Assay IDs are invalid



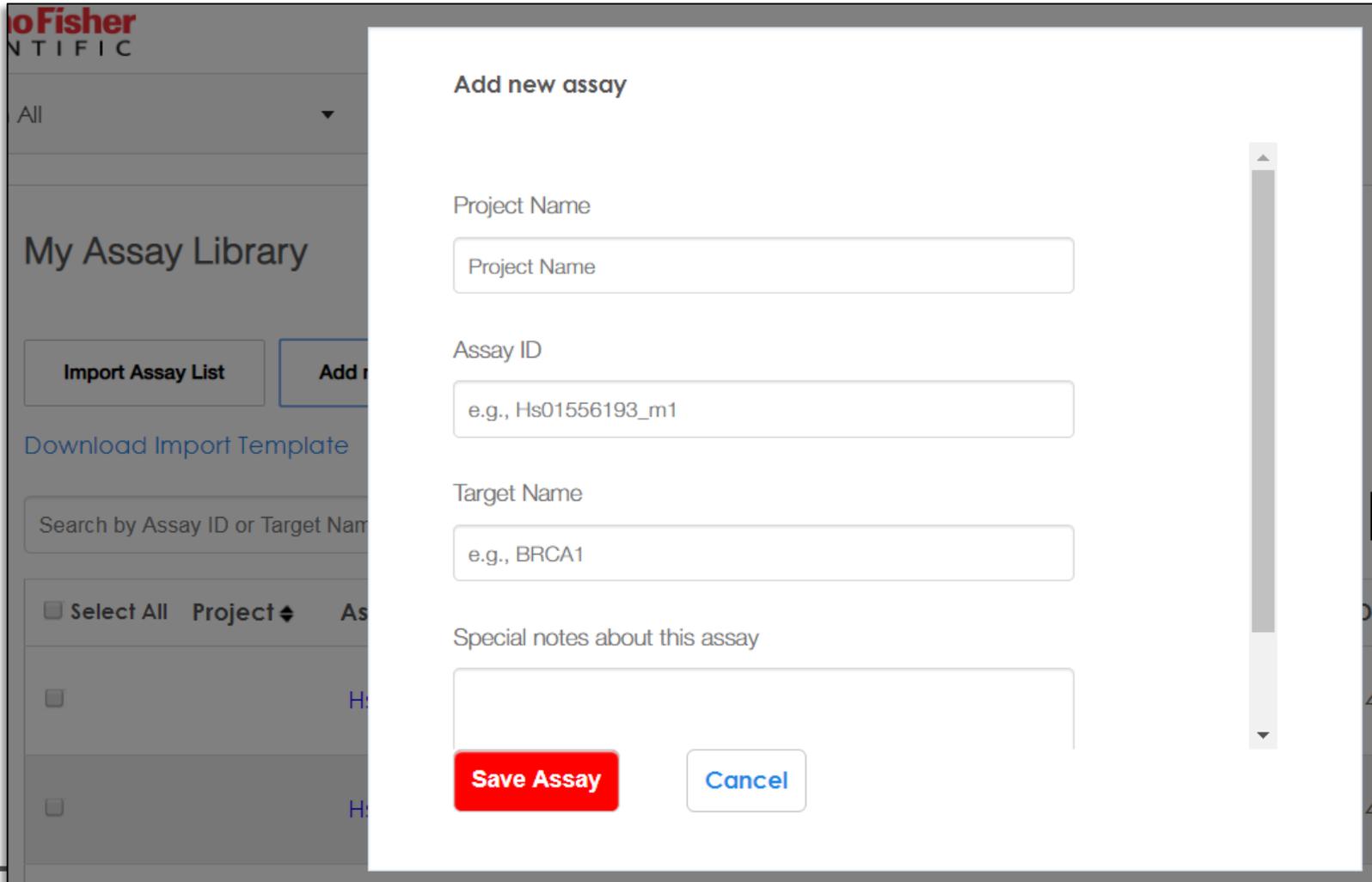
<input type="checkbox"/> Select All	Project	Assay ID	Gene Symbol	Notes	Date Created	Date Updated	Action
<input type="checkbox"/>		Hs00001171_mu			4/16/2019	4/16/2019	Edit
<input type="checkbox"/>		Hs000000005_rm					Edit

Other data missing when copy/pasting list of Assay IDs.

My Assay Library

Add new assay

- Manually enter assay details one assay at a time.



The image shows a screenshot of the ThermoFisher Scientific web interface. In the background, the 'My Assay Library' page is visible, featuring a search bar, a 'Download Import Template' link, and a table with columns for 'Select All', 'Project', and 'Assay'. Overlaid on this is a modal dialog box titled 'Add new assay'. The dialog contains the following fields and buttons:

- Project Name:** A text input field with the placeholder text 'Project Name'.
- Assay ID:** A text input field with the placeholder text 'e.g., Hs01556193_m1'.
- Target Name:** A text input field with the placeholder text 'e.g., BRCA1'.
- Special notes about this assay:** A larger text area for entering notes.
- Buttons:** A red 'Save Assay' button and a white 'Cancel' button with a blue border.

Edit assay details

<input type="checkbox"/> Select All	Project	Assay ID	Gene Symbol	Notes	Date Created	Date Updated	Action
<input type="checkbox"/>		Hs00001171_mu			4/16/2019	4/16/2019	Edit
<input type="checkbox"/>		Hs000000005_rm			4/16/2019	4/16/2019	Edit

Edit Assay

Project Name

Assay ID

Target Name

Special notes about this assay

Edit Project Name, Assay ID, Target Name, and/or Special notes

My Assay Library

Other functions

The screenshot shows the 'My Assay Library' interface. At the top right, there are buttons for '?', 'Back', and 'Logout'. Below these are buttons for 'Import Assay List' and 'Add new assay', along with a link for 'Download Import Template'. A search bar is labeled 'Search by Assay ID or Target Name or Project Name'. A table lists assays with columns for 'Select All', 'Project', 'Assay ID', 'Gene Symbol', 'Notes', 'Date Created', 'Date Updated', and 'Action'. Two red boxes with arrows point to specific features: one points to the search bar with the text 'Search for assays', and another points to the pagination controls (prev, 1, 2, next, 20) with the text 'Access additional pages in the library'. A third red box points to the '20' dropdown menu with the text 'Change how many assays are displayed'.

My Assay Library

? Back Logout

Import Assay List Add new assay

Download Import Template

Search by Assay ID or Target Name or Project Name

prev 1 2 next 20

<input type="checkbox"/> Select All	Project	Assay ID	Gene Symbol	Notes	Date Created	Date Updated	Action
<input type="checkbox"/>			TFRC				Edit
<input type="checkbox"/>		Hs99999905_m1	GAPDH		4/16/2019	4/16/2019	Edit

Search for assays

Change how many assays are displayed

Access additional pages in the library

Configure Your Specialty Plates or Cards

? Logout



Quick Estimate

Request a price estimate for future Specialty Plates or Cards project



New Configuration

Submit a custom configuration to receive a quote for your Specialty Plates or Cards



My Assay Library

View, add or modify assays to use on Specialty Plates or Cards



Submitted Requests

View saved or submitted quote requests for Specialty Plates or Cards

If you have questions, please email Specialty_Plates@thermofisher.com or Specialty_Cards@thermofisher.com

Submitted Requests

View saved or submitted quote requests for Specialty TAP/TAC

My Quote Requests Back Logout

Study Name	Array Type	Quantity	Date Submitted	Request ID	Status	Action
Human Controls	384 well	20	4/16/2019	B016000000174	Request submitted	

Click to view details

My Quote Details Back Logout

Order ID	: B016000000174	Date created	: 4/16/2019
Contact Name	: Michael DeSalvo	Format	: 16
Company/Institution	: Thermo Fisher	Quantity	: 20
Shipping Address	: 5823 Newton Drive Carlsbad, CA 92008 USA	Product Type	: 384-well plates
Phone No	: 123-456-7890		
Email ID	: michael.desalvo@thermofisher.com		

Assay List

S.No	Assay Name
1	Hs00237047_m1
2	Hs00824723_m1

Details include:

- Contact info
- Quantity
- Plate/card type
- Format
- Assay List

© 2019 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. TaqMan® is a registered trademark of Roche Molecular Systems, Inc., used under permission and license.

For Research Use Only. Not for use in diagnostic procedures.