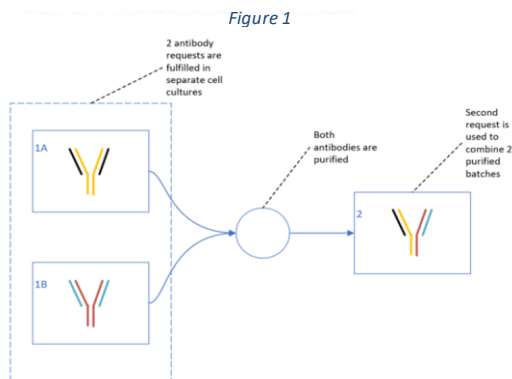


User Story

Purification Team combines multi-antibodies (2 antibodies for this example) to generate a single antibody (Figure 1).



Pre-condition

- 2 antibodies to combine have been created with PPB IDs
- RS containing a bispecific TPP has been submitted.

How to combine multi-antibodies

- | | |
|---|--|
| 1 | Find appropriate Request Set <ul style="list-style-type: none"> Cambridge: https://edbio.pfizer.com:8092/gdbxt/requestSet/bepTrnsHome?protPrdctGrp=BMD-BEP+TRNS La Jolla: https://edbio.pfizer.com:8092/gdbxt/requestSet/bepTrnsHome?protPrdctGrp=BMD-LJ |
|---|--|

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|---|---|
| 2 | Provided the RS contains just a single RQ for the multi-specific antibody, the BEP Workflow section should all be in orange. Select “Build Multi-specifics from Component RS’s” (Figure 2). |
|---|---|

Figure 1

The screenshot shows the BEP Workflow interface. The top bar is blue with the text 'BEP Workflow'. Below it, there are two main tabs: 'Planning' and 'Execution'. The 'Planning' tab is active, showing a dropdown menu for 'Set Statuses for Selected' and buttons for 'Group Selected Requests as CoTransaction', 'Un-Group Selected Requests', 'Plan Purifications', and 'Schedule Purification Instruments'. The 'Execution' tab is also visible, showing buttons for 'Vector Batches', 'Vector Batch QC', 'Expression Batches', 'PEB Virus Tests', and 'Purification Batches'. A red arrow points from the 'Tools' button in the bottom left to the 'Build Multispecifics from Component RS's' button in the bottom right.

- | | |
|---|---|
| 3 | Choose appropriate RS(s) to build the complex and select “Build Complex PPBs” (Figure 3). |
|---|---|

Figure 3

Choose Request Sets with Component Pkgs

☒ Include Complex PPKs

Additional Request Sets (Enter RS-IDx)

RS-ID	Rationale	TPPs																
<input checked="" type="checkbox"/> RS-4260	2 half molecules	<table border="1"> <thead> <tr> <th>TPP</th> <th>GBT-Targ-</th> <th>EEE Arm Half</th> <th>PPB-</th> </tr> </thead> <tbody> <tr> <td>4180</td> <td>1083</td> <td>Bispecific</td> <td>1326</td> </tr> <tr> <td>TPP-</td> <td>GBT-Targ-</td> <td>RRR Arm Half</td> <td>PPB-</td> </tr> <tr> <td>4179</td> <td>1082</td> <td>Bispecific</td> <td>1327</td> </tr> </tbody> </table>	TPP	GBT-Targ-	EEE Arm Half	PPB-	4180	1083	Bispecific	1326	TPP-	GBT-Targ-	RRR Arm Half	PPB-	4179	1082	Bispecific	1327
TPP	GBT-Targ-	EEE Arm Half	PPB-															
4180	1083	Bispecific	1326															
TPP-	GBT-Targ-	RRR Arm Half	PPB-															
4179	1082	Bispecific	1327															
<input type="checkbox"/> RS-4259	Tri-FAB test	<table border="1"> <thead> <tr> <th>TPP-4183</th> <th>GBT-Targ-1085</th> <th>TriFab VLVHFc</th> </tr> </thead> </table>	TPP-4183	GBT-Targ-1085	TriFab VLVHFc													
TPP-4183	GBT-Targ-1085	TriFab VLVHFc																
<input type="checkbox"/> RS-	Tri-FAB test	<table border="1"> <thead> <tr> <th>TPP-4310</th> <th>GBT-Targ-1117</th> <th>MultiFab VLVHFc</th> </tr> </thead> </table>	TPP-4310	GBT-Targ-1117	MultiFab VLVHFc													
TPP-4310	GBT-Targ-1117	MultiFab VLVHFc																

- | | |
|---|--|
| 4 | If valid PPBs were combined, the system will provide a message in green background with a new PPB ID (Figure 4). |
|---|--|

Figure 4

[illegible]

- | | |
|---|---|
| 5 | Upon returning to the RS page, newly created PPB will appear in the PPB table (Figure 5). |
|---|---|

Figure 5

Protein Purification Batches						
TPP-ID	TPP Name	PEB-ID	PEB Name	PPB-ID	PPB Name	PP Number
<input type="checkbox"/> TPP-1	GBT-Targ-4179	PEB-256	BMD-LJ_GBT-Targ-1083	PPB-356	BMD-LJ_GBT-Targ-1084	
<input type="checkbox"/> TPP-4180	1082-GBT-Targ-1083	PEB-257	LJ_GBT-Targ-1082_EB-8			

- | | |
|---|--|
| 6 | Select “Create or Edit PPB” to access PPB Editor (Figure 6). |
|---|--|

Figure 6

The screenshot shows the 'Plan Purification' step in the SAP Workflow. The 'Plan Expressions' section has 'Plan Purification' selected. The 'Execution' section has 'Create Path-Value Vector Batches' selected. The 'Apply Existing FPE' section has 'Create or Edit' selected.

- | | |
|----|--|
| 7 | Select "Save Edits". |
| 8 | Provide appropriate PPB data, including QC and concentration data. Select "Save Edit" whenever update is done. |
| 9 | When it is ready to register to generate PF ID, select "Generate PF#s for Selected..." |
| 10 | Provide registration details and select "Register PPBs". |
| 11 | In the RS's PPB table, various functions are available to add additional data. |

Figure 7

Protein Purification Datasets										
<input type="checkbox"/>	TPP ID	TPP Name	PES ID	PES Name	PPB ID	PPB Name	PF Number	Concentration	Yield	Major Peak %
<input type="checkbox"/>	Q43873	G8T-CDK3-6020	PEB-77207	BMD-BEP TRNS_G8T-CDK3-6020_EB-1	PPB-A0021	BMD-BEP TRNS_G8T-CDK3-6020_P2	PF-00109754-HEX-0003	2.43	115.0	
Add Lab Results FPF Registration Download File for Tube Labeler Download PPB Freeze/Pro Sample Sheets Request Molecular Assessment Request Mass Spec Request Bioassay Analysis										


- | | |
|----|--|
| 12 | If the given TPP (or its PPB) production is complete, go to its RS page, update its status by selecting “Complete”, and select “Set Statuses for Selected” (Figure 8). |
|----|--|

Figure 8

Click on the Set Statuses for Selected button

- | | |
|----|---|
| 13 | To notify the stakeholders about the completion, go to Production page (from Step 1), select RS page, and select “Send Completion Emails” (Figure 9). |
|----|---|

Figure 9



- | | |
|----|--|
| 14 | Completion email will be sent to appropriate stakeholders (Figure 10). |
|----|--|

Figure 10

Message from GDBxT

Request Set 25580 is Complete

Protein purification batches are available for K5-25580. You can view the completed Request Set 25580 [here](#).

The Q/L2 data can be viewed in GenesData at <http://130.190.147.80/Genes/show/25580>

ID	K5-25580
Project	D063
RMS Project Lead	Oleg Kisenko
Date Submitted	04-29-2014
Submitted by	Search Oak
Nationality	TAT
Production Data Set	http://205.113.190.147.80/Genes/show/25584
Number of Samples	1
Amount	100.0