

# CREATE PROTEIN EXPRESSION BATCH: PEB



Quick Reference Sheet Version 1.0 April 2024

## User Story

Protein Expression Team has its Expression Task(s) (ET) and would like to register the expression batch(es) (PEB).

## Pre-condition

- Expression Task (ET) was created for the given TTP.
- Plasmid Batch(es) (VB(s)) were created/selected against the given ET.

## How to create Protein Expression Batch (PEB)

1 Find appropriate Request Set

- Cambridge:  
<https://gdbio.pfizer.com:8092/gdbxt/requestSet/bepTrnsHome?protPrdctGrp=BMD-BEP+TRNS>
- La Jolla:  
<https://gdbio.pfizer.com:8092/gdbxt/requestSet/bepTrnsHome?protPrdctGrp=BMD-LJ>

2 In the given Request Set page, upon selecting “Create or Edit PPBs” (Figure 1). PPB Editor will load.

Figure 1

The screenshot shows the 'BEP Workflow' page with tabs for Planning, Expression Tasks, and Purification Tasks. Under the 'Expression Tasks' tab, there are buttons for 'Create Plate-Free Vector Batches', 'Order Vector Sequencing', 'Register Sequence Confirmation', 'Create', 'Create PEBs from Tasks', 'Set Virus Report for PEBs', 'Apply Existing PPB', and 'Create or Edit PPBs'. The 'Create or Edit PPBs' button is highlighted with a red box and a mouse cursor.

3 At first, select “Save Edits” to generate PPB ID(s) (Figure 2).

Figure 1

The screenshot shows the 'PPB Editor' page. At the top, there are buttons for 'Save Edits', 'Generate PPBs for Selected', and 'Delete'. Below this, there is a table with columns for 'PPB ID', 'PPB Name', 'Purification Task', 'Formulation', 'Final Concentration', 'Total Volume', 'Total Yield', and 'Final Yield'. The 'Save Edits' button is highlighted with a red box.

4 Select “Create PEBs in Genedata” to create PEB (Figure 3).

Figure 3

The screenshot shows a dialog titled 'Protein Expression Batches to be Created'. It contains a table with columns 'ID', 'Name', and 'Description'. The table has one row: 'BMD-BEP TRNS\_GBT-CD63-0020\_EB-1' with description 'ET-37650'. Below the table, there are two buttons: 'Create PEBs in Genedata' (highlighted with a red box) and 'Return to Request Set'. There is also a checkbox labeled 'Set Request S Available'.

5 PEB ID will get populated in the ID column (Figure 4).

Figure 4

The screenshot shows the same dialog as Figure 3. The 'ID' column now contains 'PEB-77207'. Below the table, there is a green box with the text 'Created 1 Expression Batch.'.

6 The expression batch (PEB) details will become available in Genedata Biologics (Figure 5).

Figure 5

The screenshot shows the 'Details' page for the PEB-77207. It contains a table with the following information: ID: PEB-77207, Name: BMD-BEP TRNS\_GBT-CD63-0020\_EB-1, Description: ET-37650, Batch Type: Protein, Locked: No, Target Product: TPP-63873 (GBT-CD63-0020), Chain Info: Light Chain, Heavy Chain, Created With Production Plate: No, Production Dataset: PDS-7844 (RS-25580), Use as Antigen Material: No. There is also a 'Show empty properties' link.

7 If additional protein expression data becomes available, return to the PEB spreadsheet in Step 3 and provide the data. Selecting “Create PEBs in Genedata” will update the data.

8 In the RS’s PEB table, various functions are available to add additional data (Figure 5).

Figure 5

The screenshot shows a table titled 'Protein Expression Batches'. It has columns for 'TPP-ID', 'TPP Name', 'PEB-ID', 'PEB Name', 'Constant Domains', 'Volume (L)', 'Protein Titer (mg/L)', 'Virus Report', 'Start Date', and 'Harvest Date'. There is one row with data. Below the table, there are several buttons: 'Sync from PDS' (highlighted with a red box), 'Set Virus Report for Selected PEBs', 'Create Expression Gel Map', 'Add Laboratory Results', 'Add SEC data', and 'Add ProA Capture Data'.

## WHAT'S NEXT

- Purification Team will process the PEB(s).