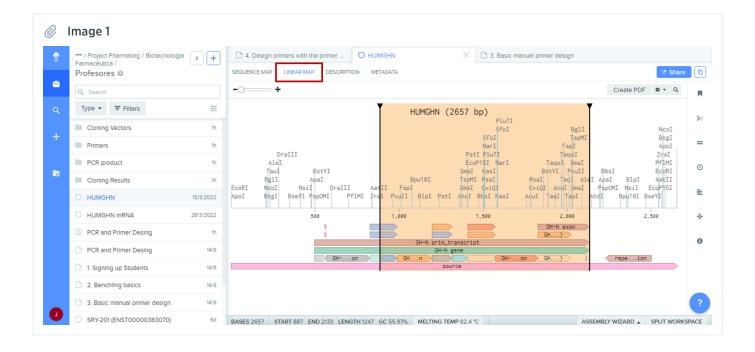
3. Design primers with the primer wizard

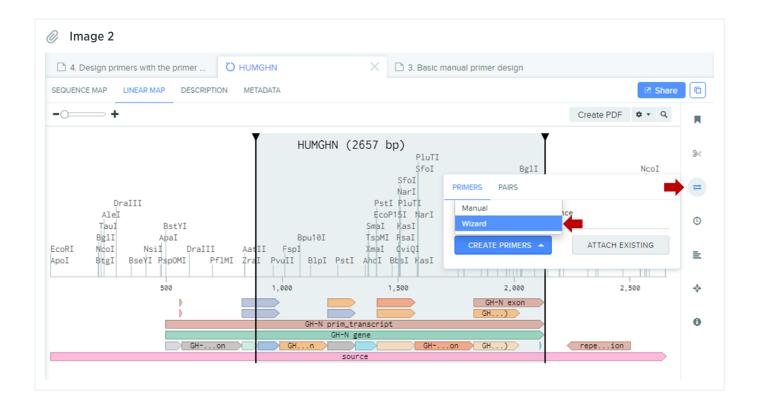
MIÉRCOLES, 21/9/2022

This doc will explain how to create and modify primers using Benchling primer wizard.

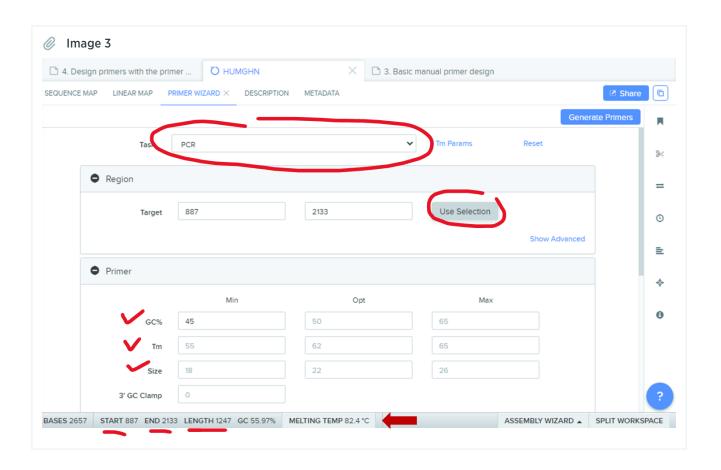
• 1. Open your sequence (sample) and click on the sequence Linear Map to have a look at it. Select the target sequence with the mouse clicking and dragging over the map (Image 1).



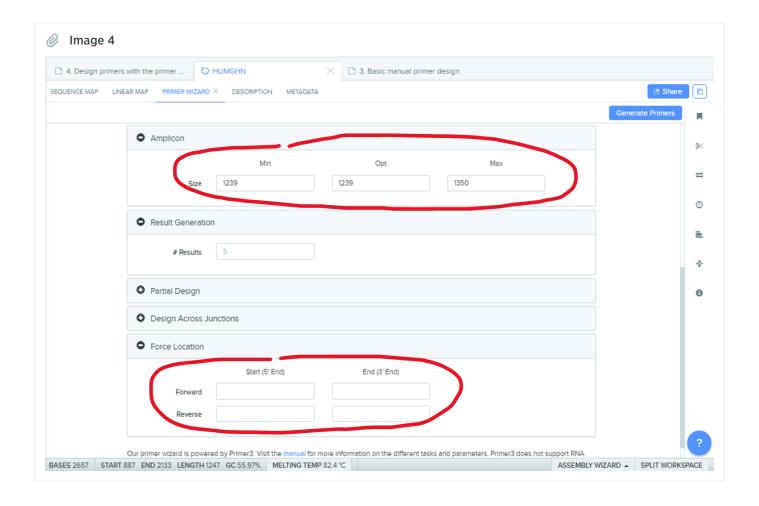
2. Click the Primer button on the right side bar. Select Create Primers > Wizard. (Image 2)



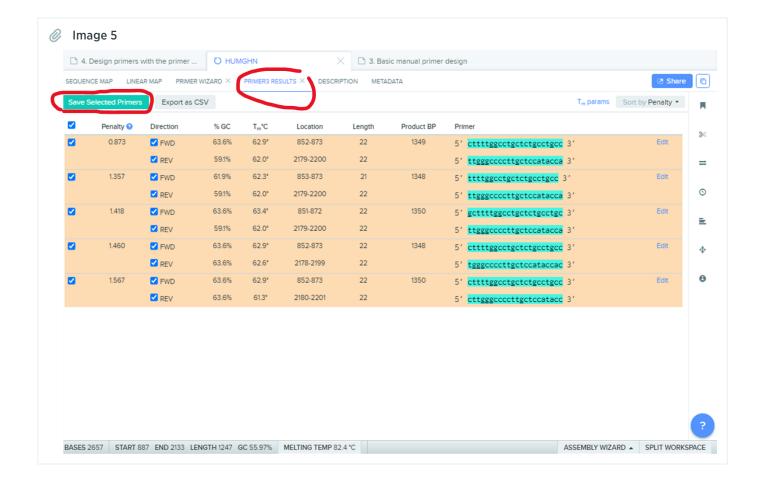
• 3. A new window will pop up where we can complete different parameters to generate the primers. Select **PCR** as the "task" for the primers. Click on "use selection" to add the selected sequence from step 1 as the target DNA. Complete the parameters for the primers like GC content, Tm or size. At the bottom of the window there is important and useful information to help you with details of the sequence like target length. (Image 3)



• 4. Scroll down to reach for more parameter and complete them, specially the **Amplicon size** window, the number of primers to be generated (**Results generation**) and, when need it, the **Forced Location** that will help with generating the primers on an specific position. (**Image 4**)



• 5. Click on generate primers. A new result primer window will pop up where you can select a pair or many primers to be saved on your folder of choice. (Image 5). Before saving, it could be useful to see the primers location, see step 6.



• 6. It is useful to have a look to the location of the primers on the target sequence. This can be done by going back to the lineal map where now the primers will appear. (Image 6)

