Array Track

Create Array Type

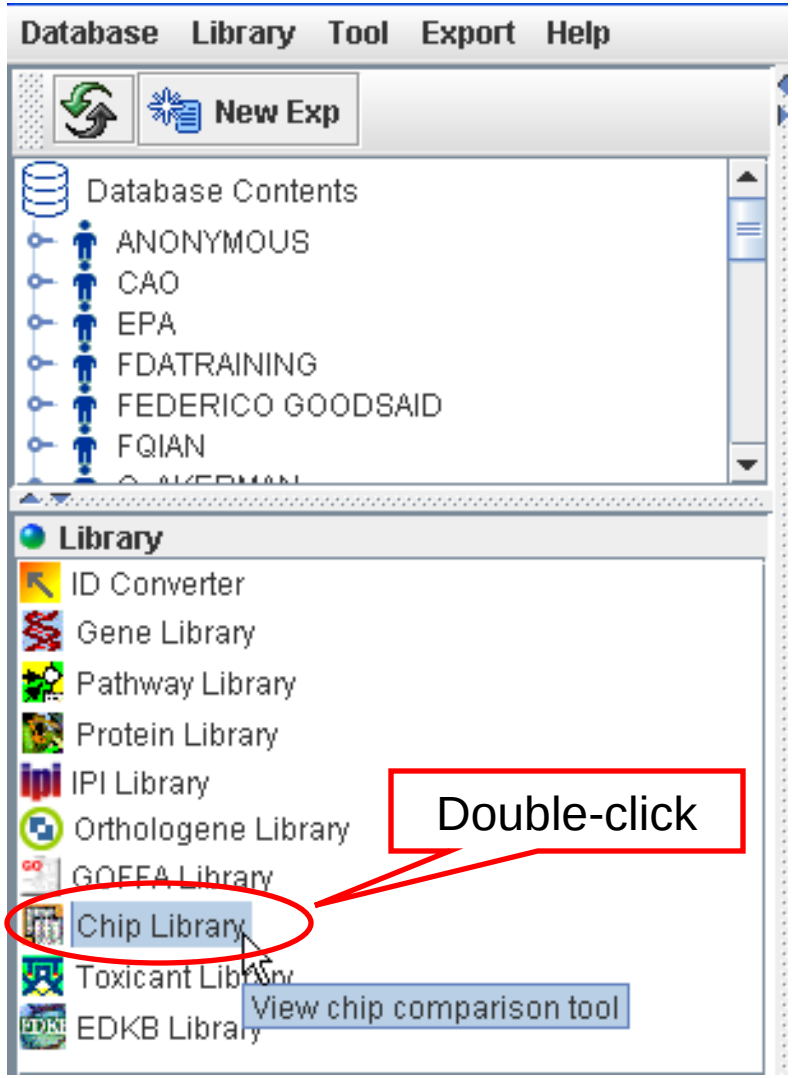
Data Import

Before you import any data, you need to check if the array type exists in ArrayTrack Chip library. Our Chip library holds about over hundred commonly used array types like Affymetrix human, rat, mouse array and some customized array types. If the array type for your data already exists in our Chip Library, then you don't need to create array type, otherwise you need to go to slide #6 to follow the steps of creating new array type.

For Agilent data you need to check the array type in the Chip Library and make sure that the coordinates and gene ID match exactly with your data file.

You also need to create hybridization file which will be used for batch import. The following slides will lead you through all the steps.

Check Existing Array Type



Chip Library stores all the array types that are available in ArrayTrack.

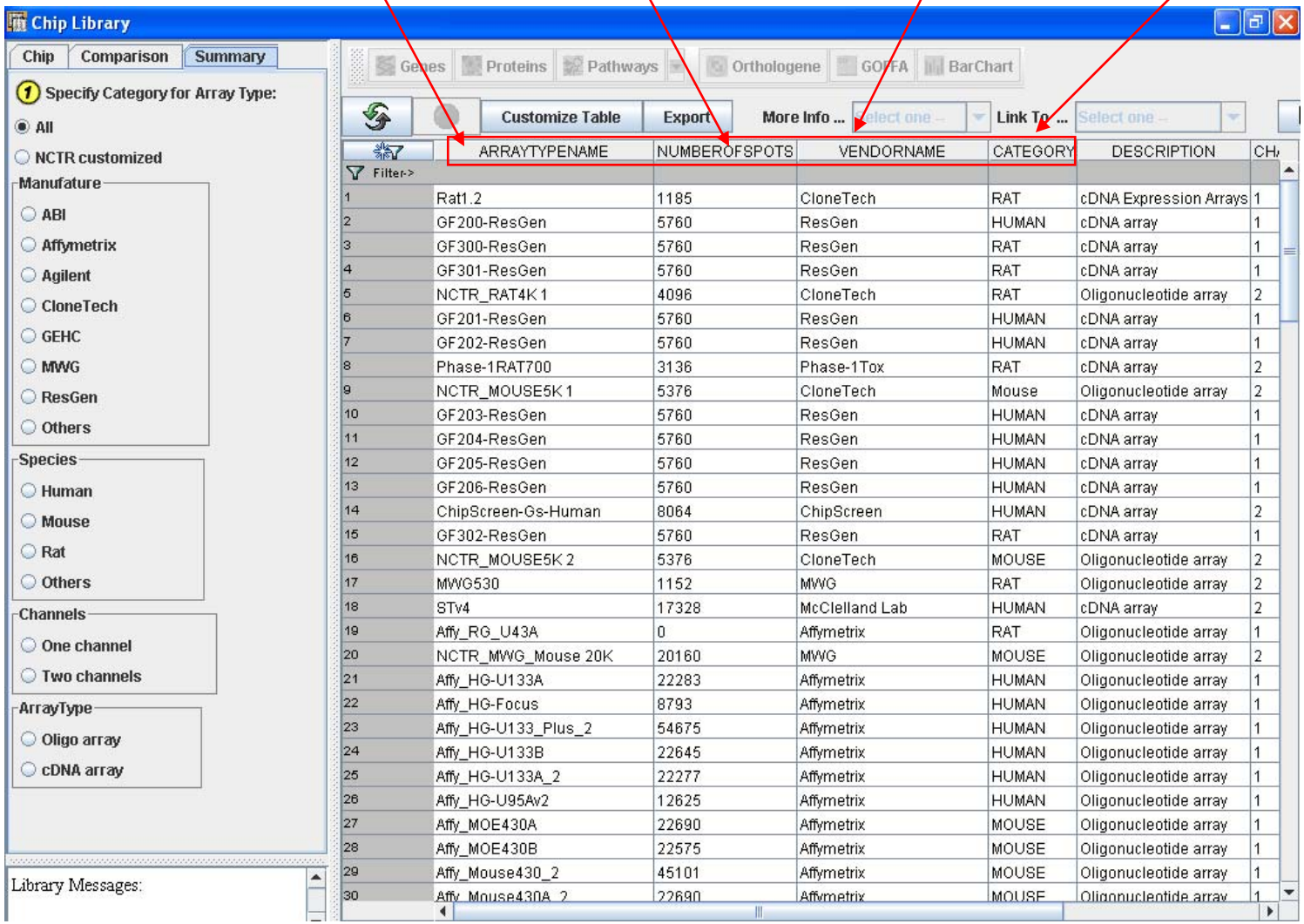
Check Existing Array Type

Array type name

Total number of spots

Vendor name

Species



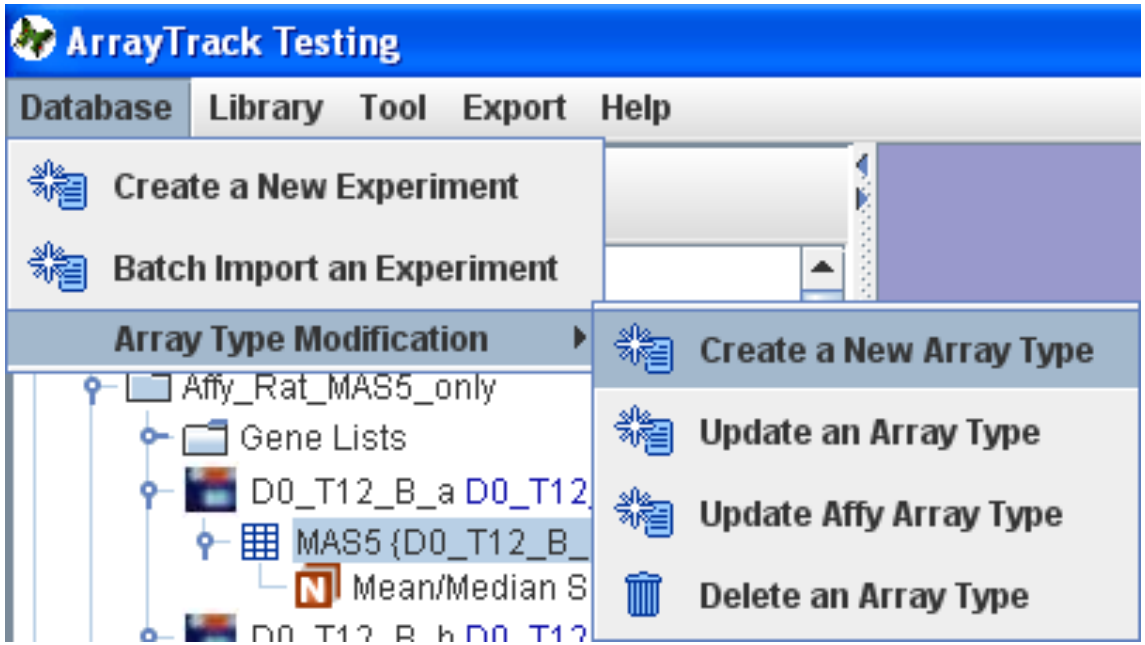
	ARRAYTYPENAME	NUMBEROFSPOTS	VENDORNAME	CATEGORY	DESCRIPTION	CH
1	Rat1.2	1185	CloneTech	RAT	cDNA Expression Arrays	1
2	GF200-ResGen	5760	ResGen	HUMAN	cDNA array	1
3	GF300-ResGen	5760	ResGen	RAT	cDNA array	1
4	GF301-ResGen	5760	ResGen	RAT	cDNA array	1
5	NCTR_RAT4K 1	4096	CloneTech	RAT	Oligonucleotide array	2
6	GF201-ResGen	5760	ResGen	HUMAN	cDNA array	1
7	GF202-ResGen	5760	ResGen	HUMAN	cDNA array	1
8	Phase-1RAT700	3136	Phase-1Tox	RAT	cDNA array	2
9	NCTR_MOUSE5K 1	5376	CloneTech	Mouse	Oligonucleotide array	2
10	GF203-ResGen	5760	ResGen	HUMAN	cDNA array	1
11	GF204-ResGen	5760	ResGen	HUMAN	cDNA array	1
12	GF205-ResGen	5760	ResGen	HUMAN	cDNA array	1
13	GF206-ResGen	5760	ResGen	HUMAN	cDNA array	1
14	ChipScreen-Gs-Human	8064	ChipScreen	HUMAN	cDNA array	2
15	GF302-ResGen	5760	ResGen	RAT	cDNA array	1
16	NCTR_MOUSE5K 2	5376	CloneTech	MOUSE	Oligonucleotide array	2
17	MWG530	1152	MWG	RAT	Oligonucleotide array	2
18	STv4	17328	McClelland Lab	HUMAN	cDNA array	2
19	Affy_RG_U43A	0	Affymetrix	RAT	Oligonucleotide array	1
20	NCTR_MWG_Mouse 20K	20160	MWG	MOUSE	Oligonucleotide array	2
21	Affy_HG-U133A	22283	Affymetrix	HUMAN	Oligonucleotide array	1
22	Affy_HG-Focus	8793	Affymetrix	HUMAN	Oligonucleotide array	1
23	Affy_HG-U133_Plus_2	54675	Affymetrix	HUMAN	Oligonucleotide array	1
24	Affy_HG-U133B	22645	Affymetrix	HUMAN	Oligonucleotide array	1
25	Affy_HG-U133A_2	22277	Affymetrix	HUMAN	Oligonucleotide array	1
26	Affy_HG-U95Av2	12625	Affymetrix	HUMAN	Oligonucleotide array	1
27	Affy_MOE430A	22690	Affymetrix	MOUSE	Oligonucleotide array	1
28	Affy_MOE430B	22575	Affymetrix	MOUSE	Oligonucleotide array	1
29	Affy_Mouse430_2	45101	Affymetrix	MOUSE	Oligonucleotide array	1
30	Affy_Mouse430A_2	22690	Affymetrix	MOUSE	Oligonucleotide array	1

Check Existing Array Type

- If the array type for your data does not exist in ArrayTrack, you need to go to slide #6 (create array type). After you created array type, then come back to continue the next slides (create experiment).
- If the array type for your data does exist in ArrayTrack, you can continue to the next slide (create experiment).

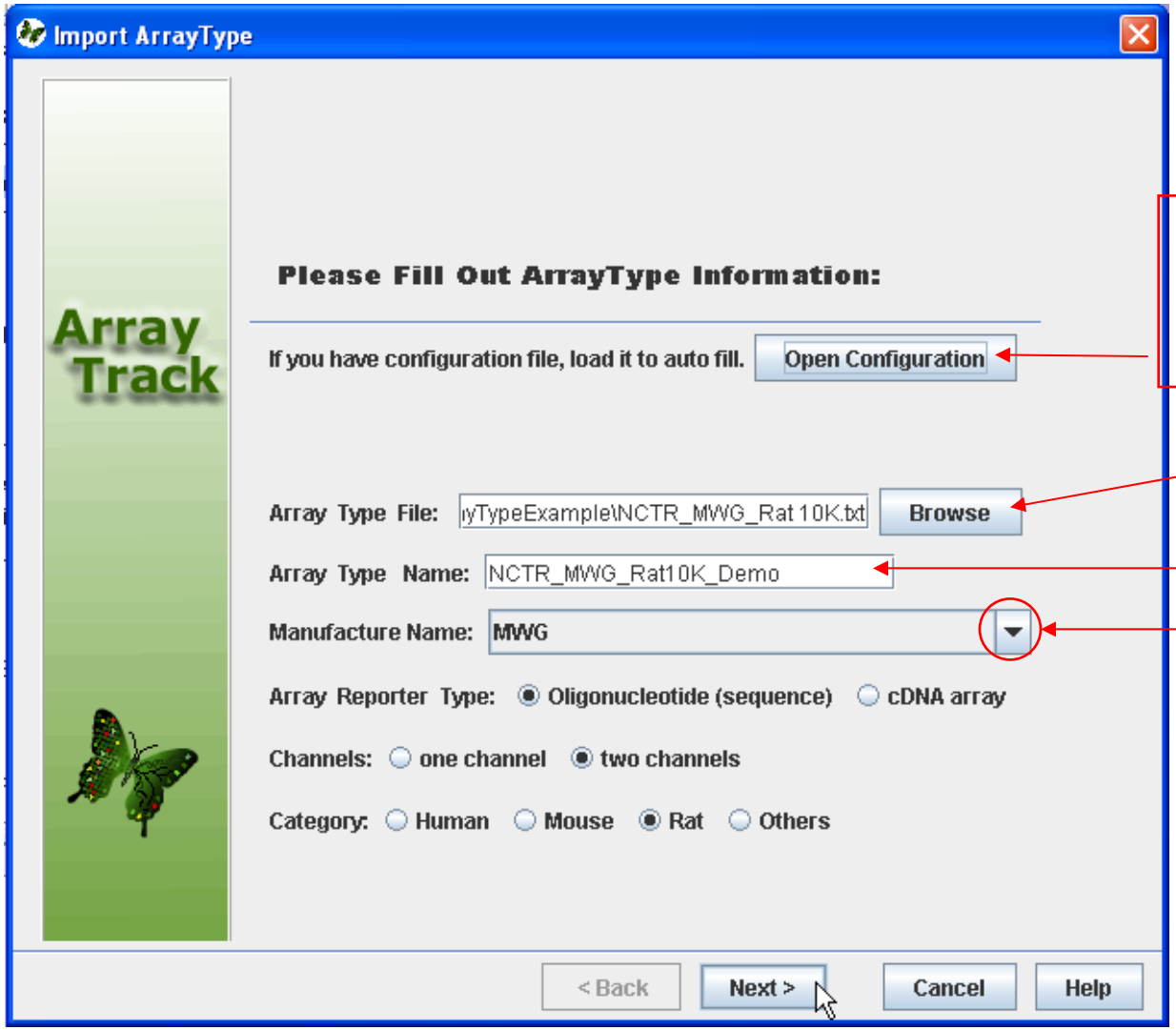
Create Array Type

Click “Database” menu, choose “Array Type Modification” ->”Create a new Array Type”.



Create Array Type - continued

The following is the example of creating array type for 2 channel data.



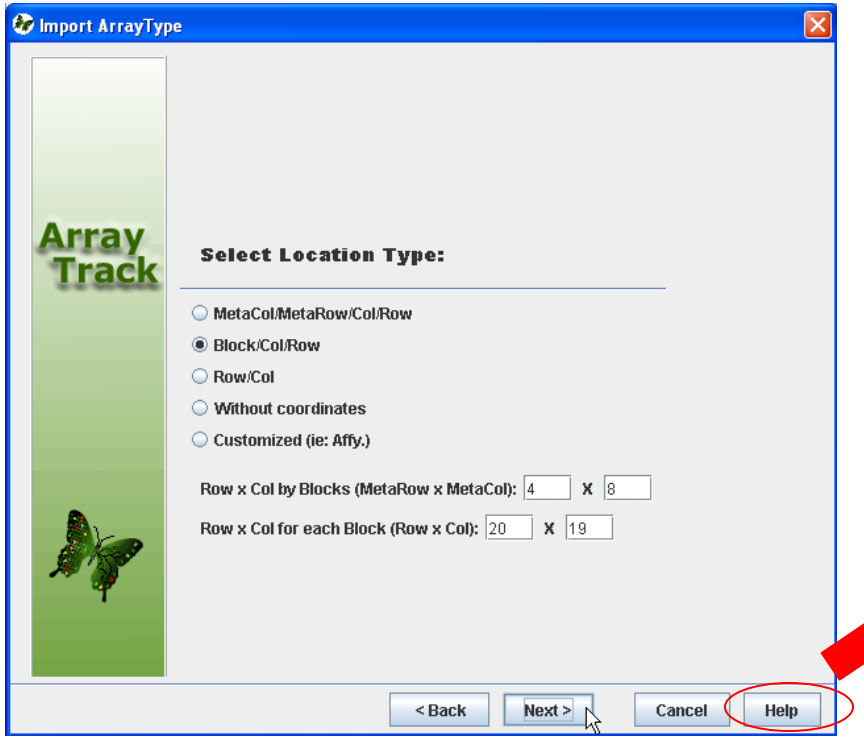
Ignore this button If you don't have configuration file. You will be asked to save the configuration file later.

Locate the array type file

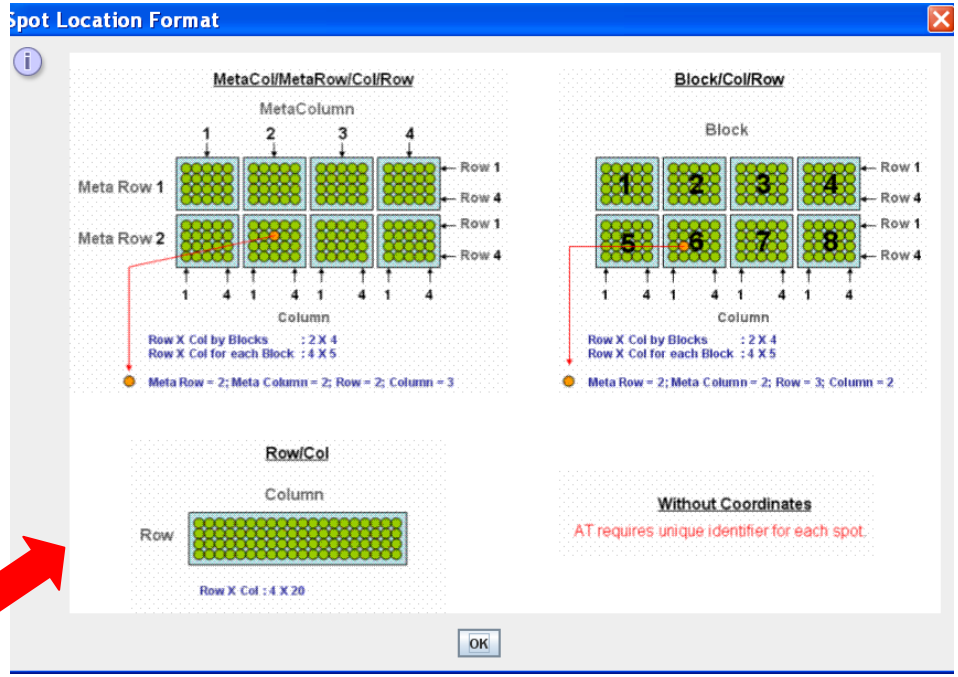
Type in the array type name

Choose the manufacture name

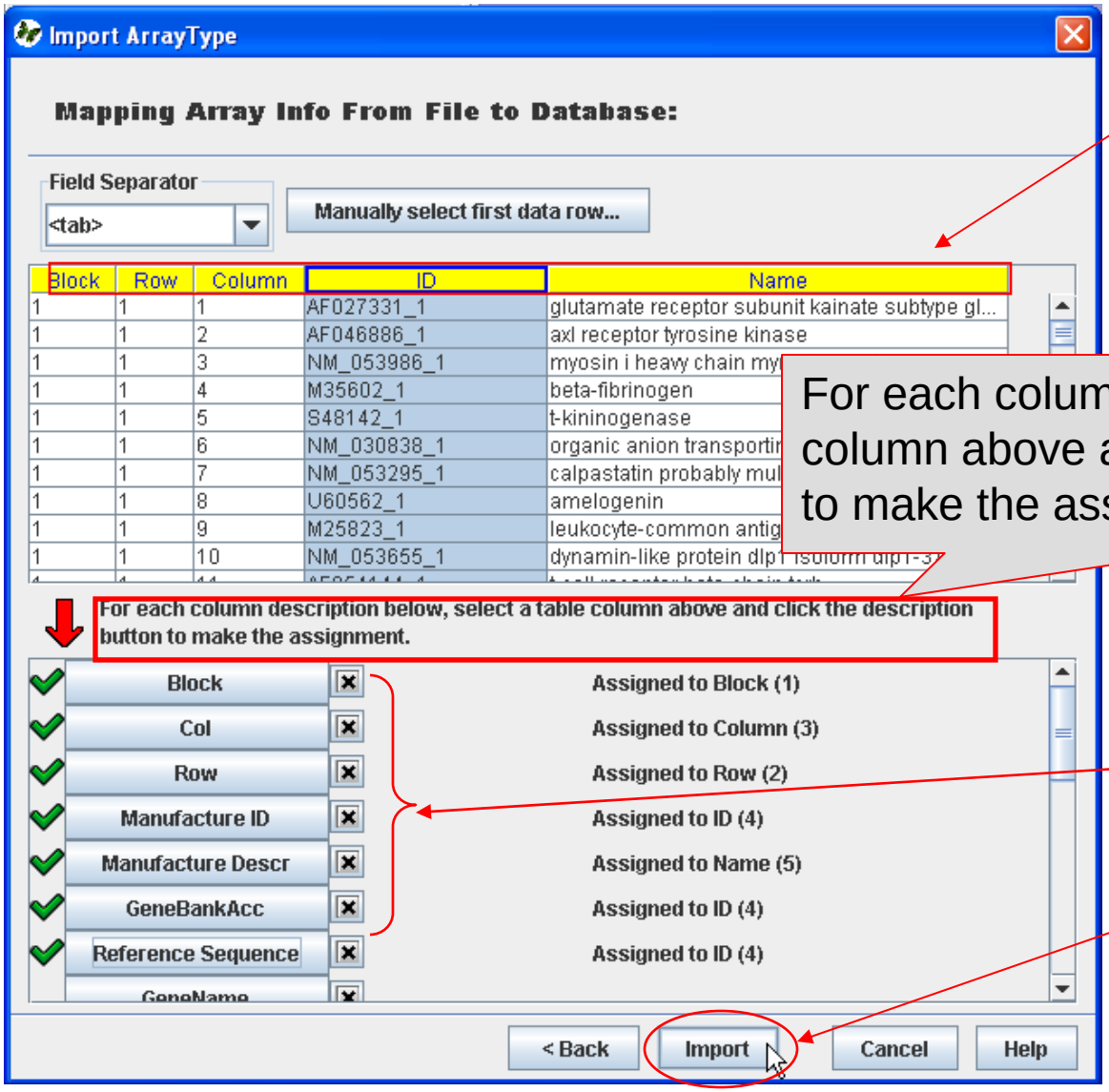
Create Array Type - continued



Click Help button to view the location definition



Create Array Type - continued



Column header

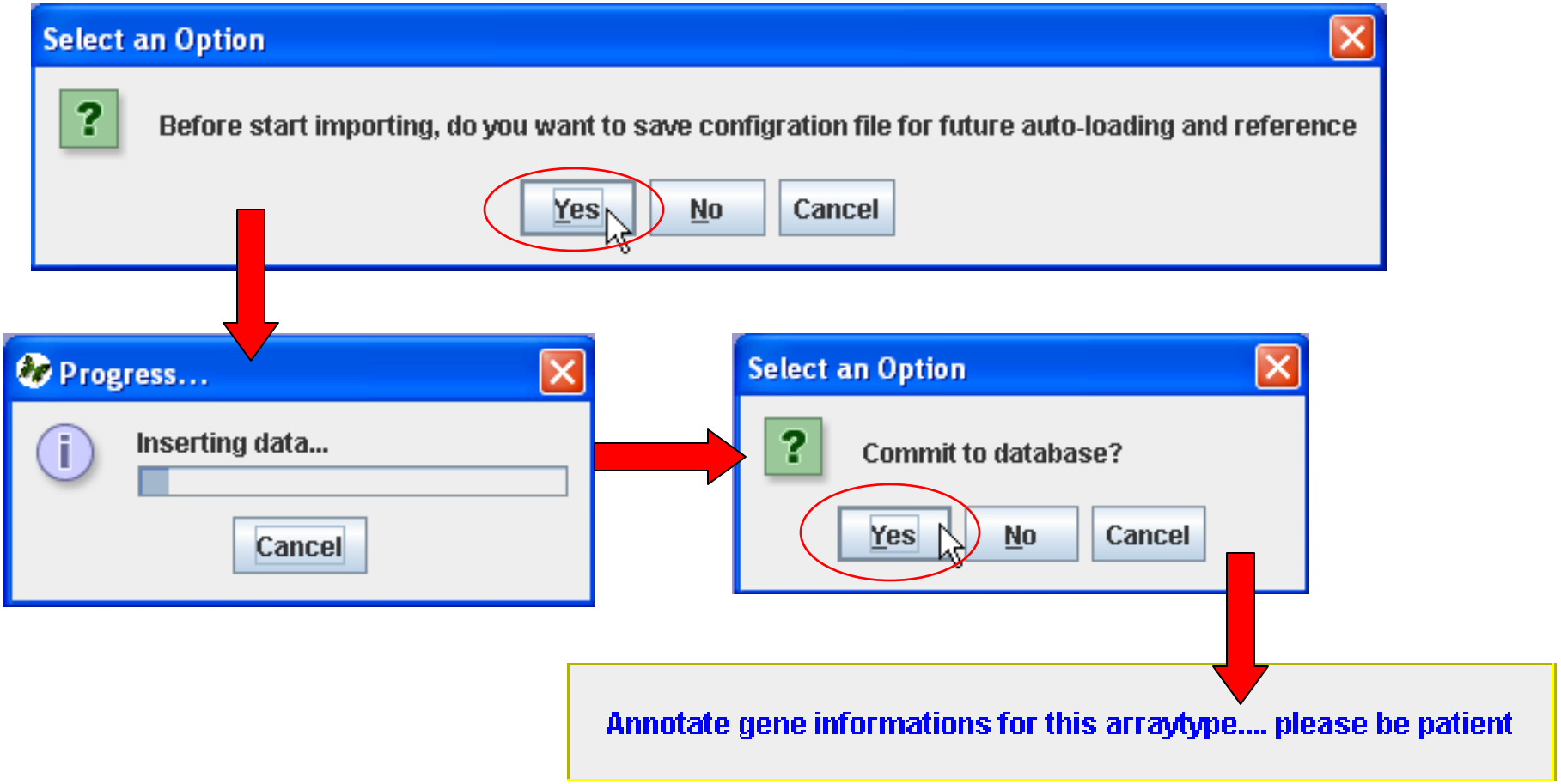
For each column description, select a table column above and click the description button to make the assignment

Description buttons

Click Import button

Create Array Type - continued

The user can save configuration file for future auto-loading and reference. Click Yes button to save to the local drive.



The created array type will be shown in the Chip Lib.