

ViBrism DB

<https://vibrism.neuroinf.jp>

a Quick Instruction Manual for 3D Expression Map Search

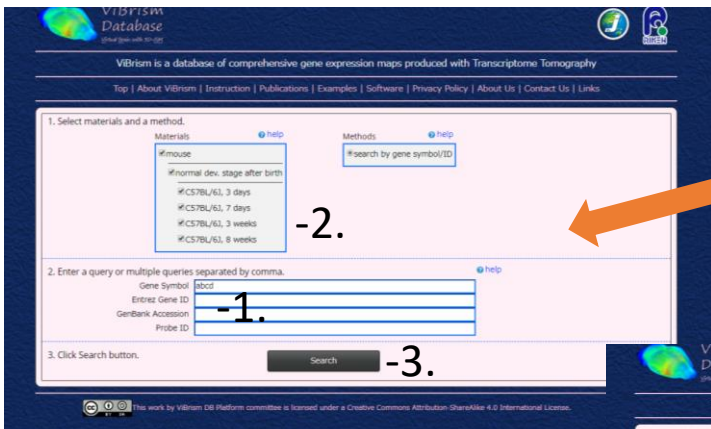
Ver.1, By ViBrism DB Committee
20180608

- I. Open a platform of “3D expression map search by gene ID” (Fig. 1).
- II. Search genes of interest (target genes) by gene IDs in materials (Fig. 2)



Click a icon to open the platform

Fig.1 ViBrism DB top-page platforms



For searching genes of interest

- 1. type gene IDs
 - 2. select materials and
 - 3. click the “ search ” button.
- Then you will see the search result*.
- 4. re-select genes , if needed

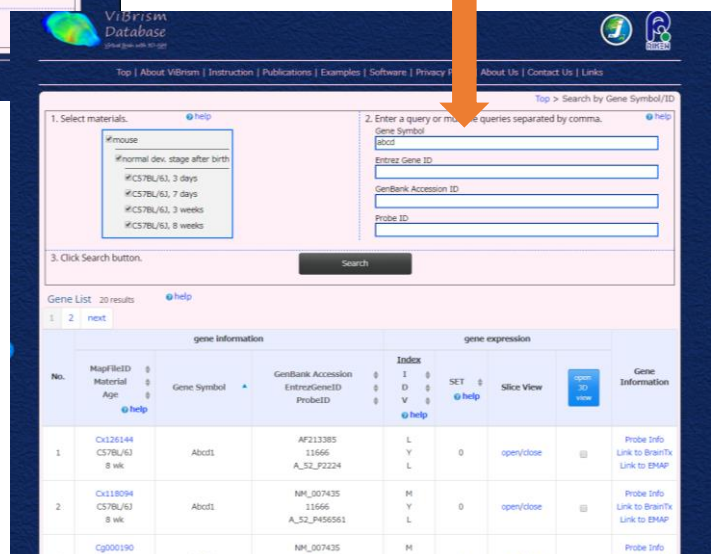


Fig.2 an example view of selecting genes

III. Select interested maps:

- click arrowheads to sort results
 - open to see 2D slice views of maps as thumb nails
 - check small square buttons and click “open a 3D view” button.
- or
- proceed to the SET search platform
(see the quick manual for SET search)
 - download gene expression map files (vcats format)
(to see the file, you need to download V-Cat software in the software tab).

Gene List 20 results [help](#)

1 2 next

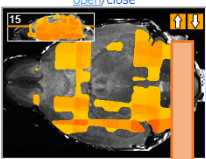
No.	gene information			Index		gene expression		Gene Information
	MapFileID Material Age help	Gene Symbol	GenBank Accession EntrezGeneID ProbeID	I D V help	SET help	Slice View	open 3D view	
1	Cx126144 C57BL/6J 8 wk e.	Abcd1	AF213385 11666 A_52_P2224	L Y L	0	 b. open/close	<input checked="" type="checkbox"/>	Probe Info Link to BrainTx Link to EMAP
2	Cx118094 C57BL/6J 8 wk	Abcd1	NM_007435 11666 A_52_P456561	M Y L	0	open/close	<input type="checkbox"/>	Probe Info Link to BrainTx Link to EMAP
3	Cg000190 C57BL/6J 3 wk	Abcd1	NM_007435 11666 A_52_P456561	M Y M	1	open/close	<input type="checkbox"/>	Probe Info Link to BrainTx Link to EMAP
4	Ce016644 C57BL/6J 3 dy	Abcd1	NM_007435 11666 A_52_P456561	M Y L	0	open/close	<input checked="" type="checkbox"/>	Probe Info Link to BrainTx Link to EMAP
5	Cf017863 C57BL/6J 7 dy	Abcd1	NM_007435 11666 A_52_P456561	M Y M	94	open/close	<input type="checkbox"/>	Probe Info Link to BrainTx Link to EMAP

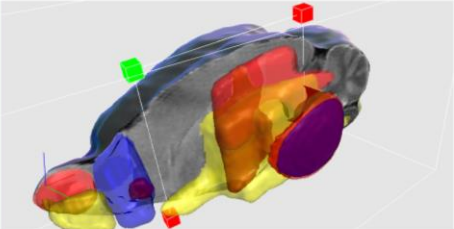
Fig.3 an example view of selecting genes (cont.)

b. Click arrows to move thumb nails.

ViBrism DB
Expression View

species: mouse strain: C57BL/6J age: 3 weeks sex: M
A URL to restore the state of this page:

Generate



Background: C57BL_...
Cross-section Shape: # P
Reset Plane: X Y Z
Zoom:
Reset Camera: Show Manipulator:

3D-expression map 2D ISH image

Isosurface Opacity: transparent 0.2 0.3 opaque

Selected Probe ID: A_52_P456561 A_55_P0012051 A_55_P2094729

No.	Probe ID	Gene Symbol	GenBank Accession	Entrez ID	MapFileID	Select 3D view color	Link to BrainTx via Entrez ID	Link to EMAP
1	A_52_P456561	Abcd1	NM_007435	11666	Cg000190	Red	Gene Info	Gene Info
2	A_51_P249302	Abcd2	NM_011994	26874	Cg007105		Gene Info	Gene Info
3	A_35_P2012051	Sox3	NM_009233	20664	Cg005670	Blue	Gene Info	Gene Info
4	A_55_P2094729	Sox10	NM_011437	20665	Cg005471	Yellow	Gene Info	Gene Info

c. Check buttons and click “open a 3D view” button. Then, you will see multiple expression maps on the MRI image of the selected age.

-2. manipulate the cross-section plane, camera position and zoom.

-1. select colors for gene display

Fig.4 an example view of 3D map viewer