

Boston Children's Hospital Viral Core



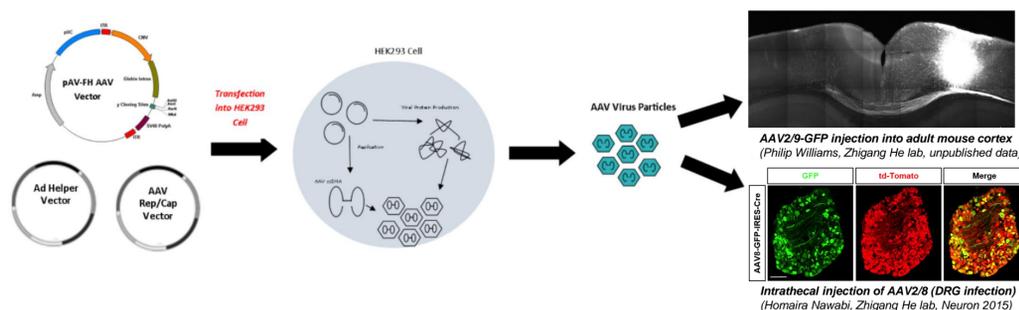
Harvard
Medical School

Harvard's
NEI Vision Core



Boston Children's Hospital
Until every child is well™

Adeno associated viruses (AAV) Service



Transfections are conducted using pAAV transfer plasmid, the Ad Helper vector, and a vector encoding the rep and serotype-specific cap. All of our AAV preparations are purified by Opti-prep gradient ultracentrifugation. We concentrate to purity and provide titers that can be used in in vivo studies.

We can prep AAV vectors into serotypes 1, 2, 5, 6, 7, 8, 9, rh10, DJ, Anc80, retro, 7m8, PHP.b, PHP.eb, and PHP.S. If you would like a new AAV serotype, please inquire with our core staff.

For a regular AAV prep, we need at least 150 µg maxi-prep plasmid DNA. Typical virus yield is between 250 to 400 µl with genomic titer between $e+12gc/ml$ – $e+14gc/ml$. Genomic titer is quantified by Q-PCR using gene specific primers or polyA specific primers.

Off-the-shelf vectors: We provide pre-made AAVs with different serotypes for pAAV-CAG-GFP-WPRE and pAAV-CAG-Cre-WPRE.

Turnaround time is about 2 months.

Other Services

DNA preparation service

To facilitate virus production, especially for labs without molecular biology equipment, we also provide high quality plasmid DNA preparation service.

Free packaging test of viral constructs

As some viral constructs cannot be successfully packaged into high titer viruses, we offer free small-scale packaging testing of viral constructs prior to regular scale virus production

Free consultation on viral vector design and application

Order procedures

Submit your order through the ilab site

1. Complete the registration form on the sign-up page.
2. Receive a Welcome Email from iLab (typically within one business day) with login credentials.
3. Choose the service type and enter order details
4. Provide a valid PO#
5. Submit your order
6. After your order is accepted by the Core, your financial contact will need to log into ilab and approve your order

Submit your DNA to the Core

Local labs could drop off your DNA into our drop off/pick up fridge. Please label your tube with the plasmid name and your name. The fridge is located in CLS building 13th floor, room 13060. It is next to bench CLS13060.13.

Please use the following address if you choose to ship your DNA samples.

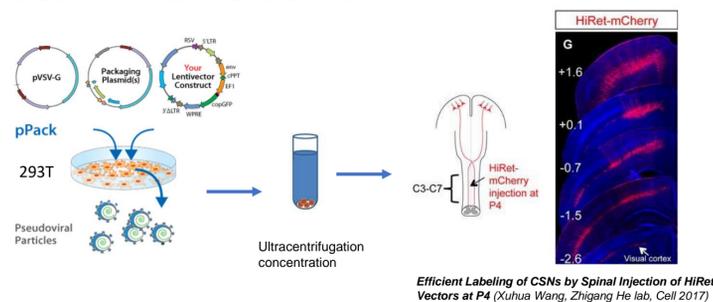
Boston Children's Hospital Viral Core

Att: Chen Wang

3 Blackfan Circle, CLS13060

Boston, MA, 02115

Lenti Virus Service



Lentiviral vectors: We use the third-generation lentivirus packaging system. Our lentivirus is pseudotyped with VSV-G. We concentrate lentivirus through ultracentrifugation and quantify its genomic titer by Q-PCR.

Please provide at least 100 µg plasmid DNA for a lenti prep.

The typical virus yield is between 150 to 200 µl with genomic titer between $e+11gc/ml$ – $e+13gc/ml$.

Turnaround time is usually 2-3 weeks.

Contact Information

Core Director: zhigang.he@childrens.harvard.edu

Core Manager: chen.wang@childrens.harvard.edu

Core Location:

3 Blackfan Circle, CLS13060, Boston, MA, 02115

Core Website:

<http://www.childrenshospital.org/research/centers-departmental-programs/fm-kirby-neurobiology-center/cores/viral-core>

ilab ordering site:

<https://childrenshospital.corefacilities.org/account/login>