PacBi



Master AAV design and overcome production challenges

Gene therapy research has reached a critical point, where novel therapies demand the highest level of precision. PacBio® long-read sequencing technology and Form Bio's streamlined data analysis now offer an all-in-one solution to optimize your AAV vector designs. This workflow can help enable desired gene therapy outcomes, providing you with the confidence and assurance to take your gene therapy research to new heights and stay ahead of the curve.





Profile packaged genomes as a single intact molecule



Assess vector integrity without extensive preparation



Reveal the relative distribution of truncated genomes vs full-length genomes in vector preparation



Detect reverse-packaged genomes that encompass sequences originating from plasmid backbone

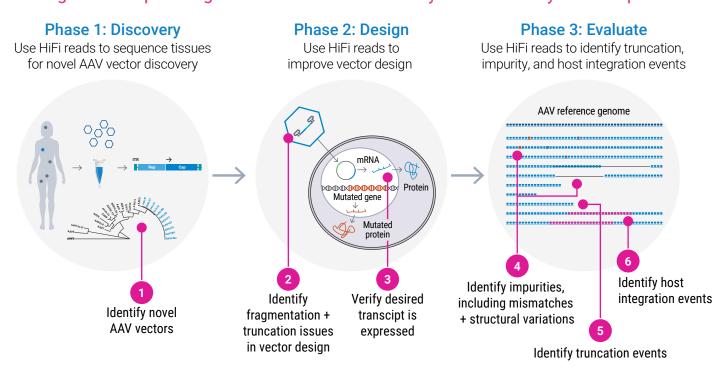


Identify sequences from packaging helper plasmids



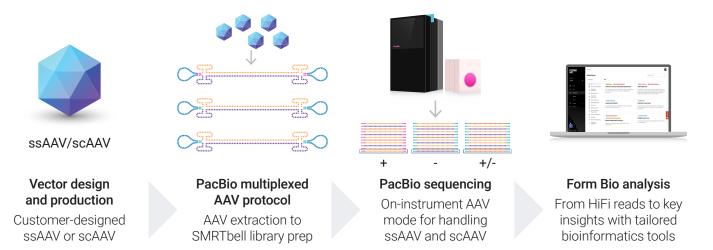
Find host-cell genomics sequences that are chimeric with inverted terminal repeat-containing vector sequences

Leverage HiFi sequencing and Form Bio to accurately characterize your AAV product



An end-to-end workflow with PacBio and Form Bio

Save time and resources using established PacBio protocols and automated analysis with Form Bio



Form Bio provides software and Al-based solutions that empower cell and gene therapy researchers to address their toughest challenges

A complete, easy-to-use, and fully serviced bioinformatics solution for secondary analysis of PacBio HiFi reads





Easy-to-use, point-and-click experience



PacBio-specific workflows for frequently performed analysis



Built-in toolbox for common, lowerlevel analysis tasks



Hands-on assistance from our experts when you need it

Form Bio makes it easy to:

- Assess quality of AAV production
- Optimize the nucleotide sequence of an AAV construct
- O Design guide RNA sequences for genome-editing experiments
- Assemble high-quality genomes from whole genome sequencing data
- Collaborate, visualize, and share results in a secure, cloud-based platform



Add long-read AAV sequencing to your research: pacb.com/gene-therapy



Analyze PacBio data with Form Bio tools: formbio.com/pacbio

Research use only. Not for use in diagnostic procedures. © 2025 Pacific Biosciences of California, Inc. ("PacBio"). All rights reserved. Information in this document is subject to change without notice. PacBio assumes no responsibility for any errors or omissions in this document. Certain notices, terms, conditions and/or use restrictions may pertain to your use of PacBio products and/or third-party products. Refer to the applicable PacBio terms and conditions of sale and to the applicable license terms at pacb.com/license. Pacific Biosciences, the PacBio logo, PacBio, Circulomics, Omniome, SMRT, SMRTbell, Iso-Seq, Sequel, Nanobind, SBB, Revio, Onso, Apton, Kinnex, PureTarget, SPRQ, and Vega are trademarks of PacBio.

