AAV Genome Sequencing

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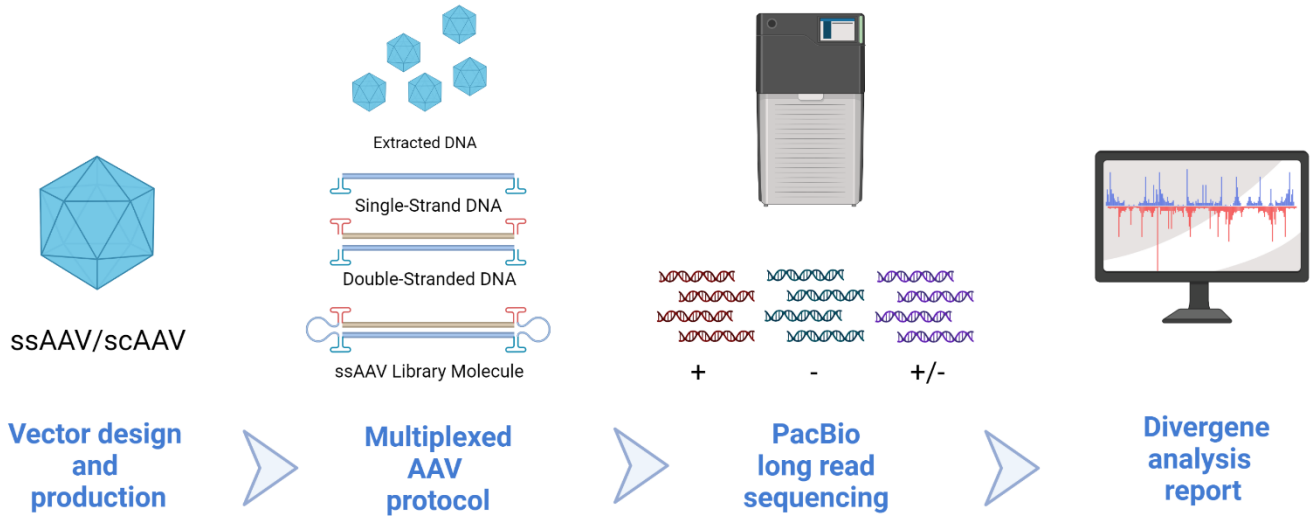
Divergene NGS solutions offer a streamlined approach for AAV cell and gene therapy research, making them ideal for adeno-associated virus (AAV) characterization. By integrating our proprietary QC process, these solutions empower researchers to validate the integrity of packaged AAV vectors, including the assessment of inverted terminal repeat (ITR) regions, identification of truncation, mutation, and host integration events. We utilize Single Molecule, Real-Time (SMRT®) sequencing on the Sequel® IIe systems, our technology and workflow allow for the sequencing of AAV genome populations. Effortlessly accommodates both scAAV and ssAAV constructs, generating HiFi reads directly on the instrument.

From AAV to analysis report



Service specifications

Description	Sample Type	Sample Quantity	Platform	Limit of detection	Turn-around time
AAV genome characterization by sequencing to assess ITR regions, truncation, mutation, and host integration events	Extracted AAV DNA in 1.5mL tubes, 0.5-0.65mL tubes, or PCR strips*	Requires >500ng of AAV DNA per sample in <20ul of EB or water	PacBio Sequel® IIe	>99.9% single-molecule accuracy	45-60 days

*Divergene recommends the use of the Invitrogen PureLink™ Viral RNA/DNA Mini Kit-12280050 or Takara AAV proPurification Kit (midi)-all serotypes-6675. Do not submit single PCR tubes, and avoid long labeling strips.

Why choose us

Superior speed & data quality	Ph.D.-level support	Custom add-on analysis	Cell and gene therapy expertise
Robust workflow, stringent quality control producing high-quality data	Our experienced team provides insight and responses within hours	Additional add-on solutions available upon request	Trusted partner for top cell and gene therapy biotech and biopharma

Key references: PMID: 29766023; PMID: 36178359; PMID: 35293222

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