



Avance Biosciences' single-cell services for rare disease leverage the cutting-edge Mission Bio Tapestri Platform to provide unparalleled insights into single-cell genomics.

Are you looking for a reliable and efficient single-cell analysis solution to help you characterize your gene therapy drug product?

Avance is the "First-in-World" to GMP qualify an % transduction assay to characterize a lentiviral vector transduced drug product using the Mission Bio Tapestri® platform for single-cell characterization.

- AAV-based therapies, while an important gene therapy modality, can harbor sequence variations that may impact clinical efficacy. Tapestri® can enable direct AAV characterization through targeted amplicon sequencing, detecting genome variation at single-virion level.
- For therapies modified by CRISPR or other gene-editing tools, Tapestri® can concomitantly measure on- and off-target editing in each cell. Additionally, multiplex editing, zygosity, and translocations can be assessed. In contrast to traditional bulk NGS analysis, Tapestri® measures the zygosity and co-occurrence of edits at the cellular level in your drug product.
- For cell therapies that have an introduced transgene, Tapestri® can measure the transduction/transfection efficiency and vector copy number (VCN) at single-cell resolution. Unlike bulk PCR assays that report population averages, Tapestri® measures cell-to-cell variation in these attributes with no cell culture required.
- Assessing the biodistribution of both ex vivo and in vivo cell and gene therapies is critical for ascertaining drug efficacy and safety prior and during clinical studies. Tapestri's® multi-attribute, multi-omic single-cell platform can be used to accurately detect cell therapy distribution throughout the body, as well as detection of modified target cells from in vivo gene therapies in a variety of tissue types.

At Avance Biosciences, we are committed to delivering top-quality results with rapid turnaround times and exceptional customer service. We understand the importance of your research and we are dedicated to helping you achieve your goals. Contact us to learn more about how Avance Biosciences and the Mission Bio Tapestri® Platform can help you advance your research in rare diseases. We look forward to connecting with you!

