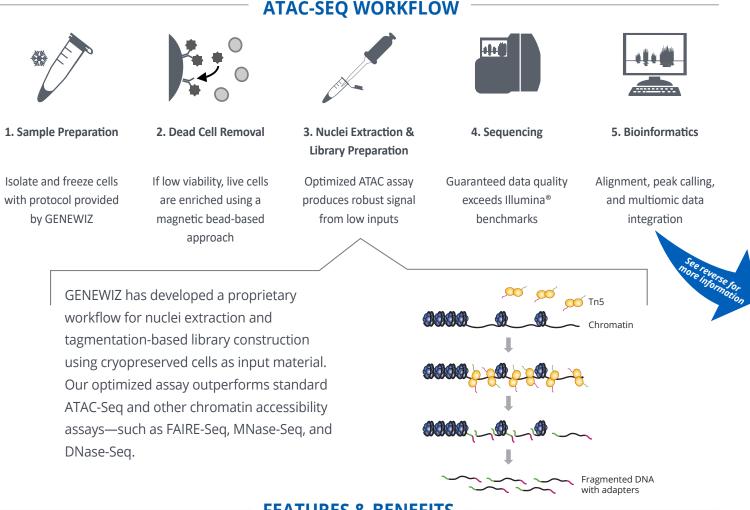


The Assay for Transposase-Accessible Chromatin using Sequencing (ATAC-Seq) employs a hyperactive form of Tn5 to efficiently label regions of open chromatin for analysis by next generation sequencing. A powerful tool for epigenetic analysis, ATAC-Seq can provide global mapping of nucleosome positions and identify active enhancer regions during development or pathogenesis.



FEATURES & BENEFITS

- Convenient sample preparation freeze and store cells prior to submission; fresh cells or isolated nuclei are not required
- Improved data quality higher signal-to-noise ratio compared to traditional ATAC-Seq
- Flexible starting material submit as few as 50,000 cells; dead cell removal improves samples with low viability
- ✓ Single-cell analysis available using the 10x Genomics[®] Chromium[™] platform

Solid science. Superior service. CONTACT GENEWIZ: Ph.D. experts available to discuss your project:



+1 (877) 436-3949 ext. 1 ngs@genewiz.com www.genewiz.com



Next generation sequencing (NGS) data can now be integrated from independent NGS assays in a "multiomic" framework for unique insights into genomic and epigenomic regulatory systems. Most notably, transcriptional (e.g. RNA-Seq) data can be linked with epigenetic (e.g. ATAC-Seq) data to quantify how chromatin structure influences the regulation of gene expression.



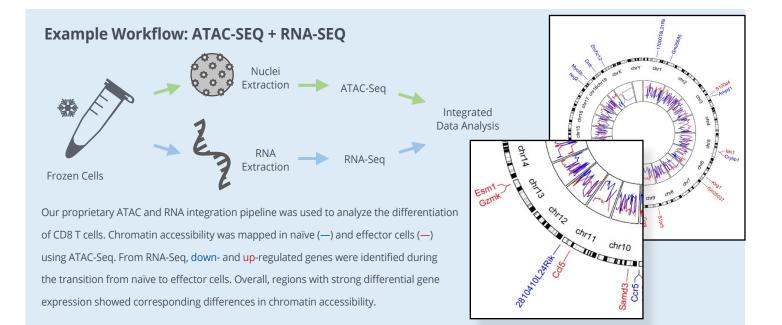
- Streamlined experimental design with sample splitting to reduce variability between assays
- Reduced cost and faster results from combined workflows
- Integrated data analysis provides greater insight into gene regulation
- Combine RNA-Seq with ATAC-Seq, ChIP-Seq, or whole genome bisulfite sequencing

THE GENEWIZ DIFFERENCE

 Superior data quality that exceeds Illumina[®] benchmarks

Industry-leading turnaround time with sequencing as fast as 1 week

- Dedicated Ph.D.-level support throughout the entire project
- ✓ Single-Cell ATAC-Seq + RNA-Seq available using the 10x Genomics[®] Chromium[™] platform



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