

## Arbor Biosciences™ Launches CRISPR-Based Mitochondrial DNA Depletion Kits

*New myNGS Guides MitoDeplete kits offer species-specific depletion of mtDNA from next-generation sequencing libraries.*

**Ann Arbor, MI – June 6, 2019** – Arbor Biosciences™, a division of Chiral Technologies and leader in developing molecular biology research tools, today announced the launch of myNGS™ Guides MitoDeplete™ Kits as an introduction to their growing catalog of guide RNA pools for targeted sequencing applications. This new depletion system combines Arbor's massively parallel, high-fidelity oligo synthesis platform with best-in-class Cas enzymes for efficiently targeting unwanted molecules from next-gen sequencing (NGS) libraries. In-stock MitoDeplete catalog kits have been specifically designed and validated for Human and Mouse applications, while kits for other Custom species can be designed and synthesized on demand.

MitoDeplete kits are designed for use on any NGS library containing a significant percentage of mitochondrial DNA (mtDNA) molecules, such as ATAC-Seq (Assay for Transposase-Accessible Chromatin using Sequencing) libraries which typically contain an abundance of mtDNA-derived molecules. While modified ATAC-Seq protocols exist to reduce mtDNA, the techniques are more cost- and time-prohibitive, and can only be applied to newly-made libraries. CRISPR-based depletion with MitoDeplete delivers up to a 95% reduction in mtDNA-derived molecules in simple, single-step process, which translates into a savings of 30-70% in sequencing costs.

“The myNGS Guides MitoDeplete Kits improve efficiency in ATAC-Seq or any other library with a high percentage of mtDNA, via a one-step incubation to remove unwanted molecules,” stated Alison Devault, Director of Genomics at Arbor Biosciences. “We are excited to introduce this new tool so researchers can sequence what matters most in their precious samples.”

The Human and Mouse kits are available for immediate shipment in a 8 reaction kit size, wherein a single reaction is suitable for depleting an entire sequencing lane's worth of libraries. Kits for Custom species can be produced on request through collaboration with one of the product scientists at Arbor Biosciences.

### About Arbor Biosciences™

Arbor Biosciences is a development and manufacturing company owned by scientists founded to serve our peers in molecular biology applications. We are a passionate organization of scientists determined to deliver cost-effective, user-friendly products to researchers of genetics and synthetic biology. The team at Arbor Biosciences prides themselves on providing exceptional customer service and timely technical support to new or advanced users on our array of products. We routinely collaborate with our customers and research partners to develop innovative solutions to address their unique applications.

### About Chiral Technologies

Chiral Technologies, a subsidiary of DAICEL CORPORATION, serves pharmaceutical and other life science industries and offers the largest portfolio of chiral stationary phases (CSPs) and analytical and preparative chiral columns for the separation of racemic mixtures into single enantiomers. The company also provides analytical method development and custom separation services. Learn more at [www.chiraltech.com](http://www.chiraltech.com).



Contact for Arbor Biosciences:

**Matthew Hymes**

Arbor Biosciences

+1 734 277 7101

[hymes@arborbiosci.com](mailto:hymes@arborbiosci.com)