Twist Bioscience Launches Pangenome Spike-in Exome Panel to Enable Advancement of Research for Diverse Populations

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SOUTH SAN FRANCISCO, Calif.--(BUSINESS WIRE)--Mar. 28, 2024-- Twist Bioscience Corporation (NASDAQ: TWST), a company enabling customers to succeed through its offering of high-quality synthetic DNA using its silicon platform, today announced the launch of a new Human Pangenome Spike-in for the Twist Exome 2.0 panel developed to enable researchers to detect a more complete view of genetic variation during whole exome sequencing (WES).

“No one single human genome can serve as a reference representing everyone. In order to advance science for all people, researchers need to have tools that enable them to conduct research relevant to people from diverse backgrounds,” said Emily M. Leproust, Ph.D., CEO and co-founder of Twist Bioscience. “By leveraging the reference sequences assembled by the Human Pangenome Reference Consortium, we can offer our customers a tool that can enable them to better understand the true breadth of human genetic variation as they develop new assays.”

The Human Pangenome Reference Consortium (HPRC) is a project funded by the National Human Genome Research Institute (NHGRI) that has the objective to sequence and assemble complete telomere-to-telomere genomes from individuals from diverse populations into a new type of reference in order to better represent the genomic landscape of diverse human populations. The updated HPRC reference standard includes samples from 24% African ancestry, 30% Americas, 18% East Asia and 28% South Asia.

“When companies such as Twist utilize our reference standard to create research tools, it facilitates scientists’ study of genetic variation. This may enable the creation of effective diagnostic tests and treatments for ancestrally diverse genomic data,” said Bob Fulton and Karen Miga, Co-Chairs of the Production and Technology Working Group of the Human Pangenome Reference Project.

The Twist Human Pangenome Spike-in Panel targets 2.5 Mb of pangenome variants and can be spiked into the Twist Exome 2.0 to target more than 94% of the novel pangenome variants affecting coding sequences in the exome.

If interested in the Human Pangenome Spike-in Panel for the Twist Exome 2.0 panel, please complete the contact form here: https://www.twistbioscience.com/contact

About Twist Bioscience Corporation

Twist Bioscience is a leading and rapidly growing synthetic biology and genomics company that has developed a disruptive DNA synthesis platform to industrialize the engineering of biology. The core of the platform is a proprietary technology that pioneers a new method of manufacturing synthetic DNA by “writing” DNA on a silicon chip. Twist is leveraging its unique technology to manufacture a broad range of synthetic DNA-based products, including synthetic genes, tools for next-generation sequencing (NGS) preparation, and antibody libraries for drug discovery and development. Twist is also pursuing longer-term opportunities in digital data storage in DNA and biologics drug discovery. Twist makes products for use across many industries including healthcare, industrial chemicals, agriculture and academic research.

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Twist Bioscience Legal Notice Regarding Forward-Looking Statements

This press release contains forward-looking statements. All statements other than statements of historical facts contained herein are forward-looking statements reflecting the current beliefs and expectations of management made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, including statements regarding the ability of the Human Pangenome Spike-in Panel for the Twist Exome 2.0 panel to enable researchers to detect a more complete view of genetic variation during WES. Forward-looking statements involve known and unknown risks, uncertainties, and other important factors that may cause Twist Bioscience’s actual results, performance, or achievements to be materially different from any future results, performance, or achievements expressed or implied by the forward-looking statements. Such risks and uncertainties include, among others, the ability to achieve the expected benefits of Twist Bioscience’s restructuring activities and reduced investments in DNA data storage; the ability to attract new customers and retain and grow sales from existing customers; the ability of Twist Bioscience to achieve sufficient revenue to achieve or maintain positive cash flow from operations or profitability in any given period; risks and uncertainties of rapidly changing technologies and extensive competition in synthetic biology that could make the products Twist Bioscience is developing obsolete or non-competitive; uncertainties of the retention of significant customers; the ability of Twist Bioscience to successfully integrate acquired companies and to achieve expected benefits from acquisitions; supply chain and other disruptions; risks of third party claims alleging infringement of patents and proprietary rights or seeking to invalidate Twist Bioscience’s patents or proprietary rights; and the risk that Twist Bioscience’s proprietary rights may be insufficient to protect its technologies. For a description of the risks and uncertainties that could cause actual results to differ from those expressed in these forward-looking statements, as well as risks relating to Twist Bioscience’s business in general, see Twist Bioscience’s risk factors set forth in Twist Bioscience’s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on February 2, 2024 and subsequent filings with the SEC. Any forward-looking statements contained in this press release speak only as of the date hereof, and Twist Bioscience specifically disclaims any obligation to update any forward-looking statement, whether as a result of new information, future events or otherwise.

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