



## Twist Bioscience and the Broad Institute Create Custom Whole Exome Target Enrichment Panel for Clinical Research

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- Twist Bioscience to Offer Clinically Validated, Expert-Designed Exome Panel that Enriches Loci Relevant to Cancer, Rare and Inherited Diseases -

SOUTH SAN FRANCISCO, Calif.--(BUSINESS WIRE)--Oct. 13, 2021-- 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 an agreement with the Broad Institute for the distribution of a customized next-generation sequencing (NGS) target enrichment exome panel designed for the identification and research of a wide range of cancer, rare and inherited disease genes from patient samples. Twist will market this expert-developed exome panel as the [Twist Alliance Clinical Research Exome](#).

The Twist Alliance Clinical Research Exome helps support the Broad Institute Genomics Platform and was designed using validated data from clinical patient samples. The panel leverages Twist's flexible NGS platform to easily and quickly customize content, resulting in a comprehensive survey of the exome with supplemental enrichment of clinically relevant areas of the genome related to cancer as well as rare and inherited diseases. By leveraging the best-in-class uniformity of Twist NGS probes, the assay enables a per sample cost and throughput efficiency that Broad has already leveraged to process more than 250,000 samples to date, keeping it on the leading edge of exome sequencing.

"Exome sequencing has long been a key part of our sequencing efforts for large cancer and germline research studies. Our development with Twist has leveraged many of our learnings on the technical side and pulls in knowledge from collaborating investigators to provide an enhanced exome that will increasingly span both research and clinical applications in which results are returned to patients" said Stacey Gabriel, senior director of the Broad Institute Genomics Platform.

The Twist Alliance Clinical Research Exome will be available for customers in mid-October. The full design of this panel includes the Twist Core exome, the mitochondrial genome, and additional validated coding and non-exonic regions of interest such as the ACMG73 genes, supplemental coverage of regions from OMIM and COSMIC, and specific Broad-defined targets. To see Broad's Director of Genomics Research and Development Brendan Blumenstiel presenting data on the panel, visit: [https://www.youtube.com/watch?v=v\\_9Bt8sBuaY](https://www.youtube.com/watch?v=v_9Bt8sBuaY).

"Typically, in cancer research studies, there is a great need to focus sequencing efforts on particular genes or mutations but often with a small number of samples available. Leveraging the Broad's vast expertise, together we have developed a specialized custom panel that enables deeper sequencing, producing validated genetic variants that could be used for therapeutic intervention," said Emily M. Leproust, PhD, chief executive officer and co-founder of Twist Bioscience. "We are thrilled to bring this important tool to our customers to drive deep insights into research and potentially therapeutic development."

### About Twist Alliance Panels

In partnership with leading research institutions from around the world, Twist has curated a collection of high-quality target enrichment panels for applications ranging from carrier screening to cancer diagnostics and whole exome sequencing. The Twist Alliance Panels combine the strengths of precise, highly uniform oligonucleotide synthesis with the specialty expertise of leading scientific research partners.

Well designed, custom target enrichment panels enable increased sequencing depth on target genes while reducing overall sequencing. This allows for more sensitive detection of target sequences and higher confidence variant detection.

### 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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acquired companies and the ability of Twist Bioscience to successfully integrate acquired companies and to achieve expected benefits, 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 further 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 Form 10-Q filed with the Securities and Exchange Commission on August 9, 2021 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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