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Agilent launches new exome design to enhance genomics-based studies

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Design provides comprehensive content and flexible exome options



Agilent Technologies Inc. has announced the release of SureSelect Human All Exon V8 – a new exome design that provides comprehensive content and up-to-date coverage of protein coding regions from RefSeq, CCDS, and GENCODE.

It also covers the TERT promoter and hard-to-capture exons that are omitted by other exomes on the market. The new design is available in three options – routine exome sequencing (Exome v8), clinical research sequencing (v8 Clinical Plus), and translational research (v8 UTR Plus) – allowing for content flexibility to meet our customer's needs.

Powered by machine learning-based probe design and an improved probe-printing process, the SureSelect Human All Exon V8 spans a 35.1 Mb target region of the human genome, with an efficient end-to-end design size of only 41.6 Mb. The panel delivers excellent enrichment performance for more uniform coverage, as well as efficient and cost-effective exome sequencing.

Kevin Meldrum, vice president and general manager for Agilent's Genomics Division, discussed the impact of the release. "The SureSelect exome has been widely adopted in both clinical and translational research, and it has played an important role in shaping the rise of exome sequencing as a routine genomics technique," he said. "The SureSelect Human All Exon V8 provides best-in-class enrichment performance and sequencing efficiency, and it shows our commitment to exceed customer expectations and continue our legacy as the benchmark exome to the genomics community."