DRAGEN & AWS Marketplace

AWS Marketplace is a curated digital catalog that makes it easy for customers to find, buy, develop, and manage third-party software that customers need to build solutions and run their business. AWS Marketplace allows customers to simplify and securely scale genomic analysis, building a bridge from their existing on-premise infrastructure to the cloud. Combined with the power of DRAGEN, customers can accelerate their secondary analysis of next-generation sequencing (NGS) directly through the AWS Marketplace.

DRAGEN in the Cloud

Powered by Amazon Web Services' (AWS) new reconfigurable field programmable gate array (FPGA)-enabled F1 instances, DRAGEN features optimized algorithms for mapping,aligning, sorting, duplicate marking, variant calling, and more. By implementing algorithms as logic circuits, DRAGEN offers unprecedented speeds, analyzing a wholehuman genome at 30x coverage in under an hour on a single F1 AWS instance, a fraction of the 20-30 hour timeframe to run software- only pipelines like BWA-GATK.

DRAGEN Complete Suite - available now on AWS Marketplace

The DRAGEN Complete Suite (CS) is a comprehensive solution that offers the industry-leading speed of the DRAGEN Bio-IT Platform with the accessibility to the DRAGEN pipelines. The DRAGEN CS is available on the cloud with enhanced features, such as BCL conversion and data streaming, for even faster analysis times.

Genome/Germline Pipeline

The DRAGEN Germline Pipeline provides clinical-grade, end-to-end (BCL -> VCF) next-generation sequencing analysis with DRAGEN's considerable speed.

Somatic Pipeline

The DRAGEN Somatic Pipeline includes tumor-only and tumor/normal pipelines, designed for use in detecting rare mutations that may contribute to cancer formation and growth.

Transcriptome/RNA Gene Fusion Detection Pipeline

The DRAGEN Transcritpome Pipeline performs transcriptome analysis with splice junction alignment and offers multiple operating modes, including reference-only alignment and annotation-assisted.

Joint Genotyping/Population Calling Pipeline

The Joint Genotyping Pipeline calls variants from extremely large datasets at a speed 25x faster than competing pipelines with uncompromising accuracy.

For more information, visit www.edicogenome.com/AWSMarketplace