

# NGS TARGET ENRICHMENT SURESELECT for ION PROTON

## Outstanding Performance with Greater Flexibility

### Benefits

#### Proven Performance

- High sensitivity, specificity and coverage
- Greater than 99% SNP concordance rate

#### Unparalleled Flexibility

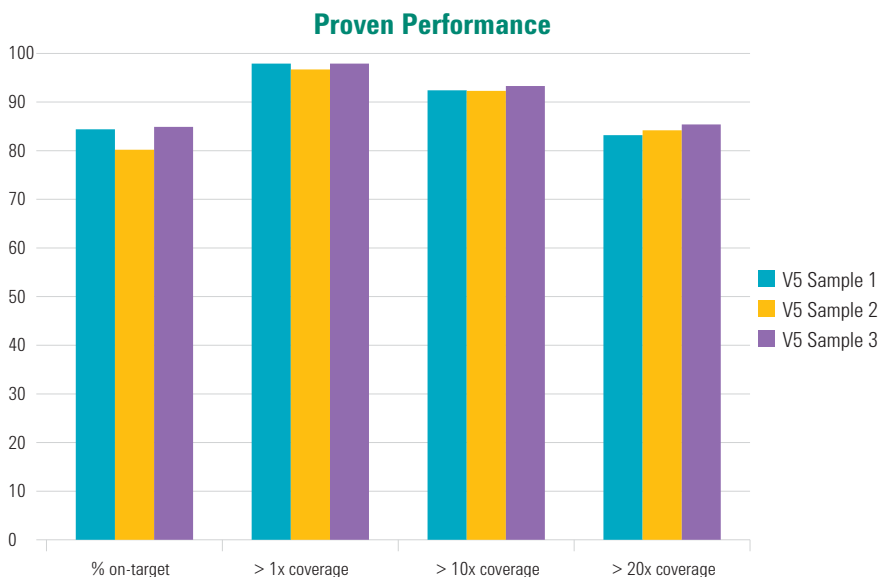
- Create custom panels or add content to the Human All Exon V5
- Open platform solution can be used across multiple sequencing platforms

#### Fast and Easy Workflow

- Sequencer ready samples in 1.5 days
- Complete solution: from sample prep to data analysis

### Overview

The leading target enrichment solution is now available and optimized for the Ion Proton™ System. SureSelect Target Enrichment for Ion Proton enables researchers access to the most proven target enrichment technology, providing superior performance and faster time to results. Researchers can utilize the industry leading exome kit, SureSelect Human All Exon V5, as well as create custom DNA target enrichment panels. An improved workflow with fast overnight hybridization has been developed to generate sequencer-ready samples in only 1.5 days.



**Figure 1.** SureSelect Human All Exon V5 demonstrates high coverage with greater uniformity. Samples were sequenced to 4 Gb with > 80 % of bases covered at 20X. Data is based on 4 Gb of mapped high quality reads.





## Increased Coverage with Unparalleled Flexibility

SureSelect Human All Exon V5 demonstrates exceptional performance with greater uniformity. Target enrichment performance was assessed by determining the coverage for all targeted bases. Greater than 97% of targeted bases were covered at 1X, 90% at 10X and 80 % at 20X with only 4 Gb of mapped high quality reads (Figure 1). SNV analysis was performed on sequenced HapMap samples demonstrating high sensitivity and concordance. SNP concordance rate was > 99 % compared to dbSNP135 (Figure 2).

### Greater than 99% SNP concordance

dbSNP 135	
Overlapping sites	39,608
Sites in concordance	39,435
<b>Concordance rate</b>	<b>99.56 %</b>

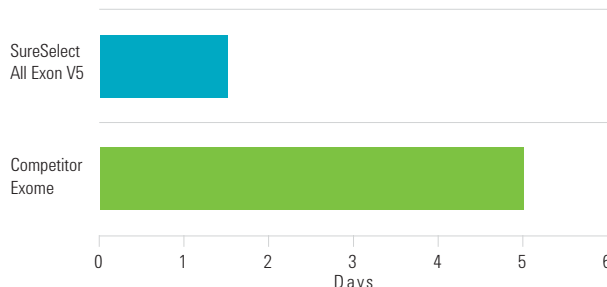
**Figure 2.** All Exon V5 data for sequenced NA12878 HapMap samples shows > 99% SNP concordance.

**SureSelect is fully customizable.** Researchers can easily create custom targeted panels tailored specifically to the scope of the study with Agilent’s user friendly web-based design software, SureDesign ([agilent.com/genomics/suredesign](http://agilent.com/genomics/suredesign)), or add content to currently available catalog kits. With an open platform solution, data can be generated across different sequencing platforms.

## Fast and Easy Workflow

SureSelect provides a quick and easy workflow which generates sequencer ready samples in only 1.5 days (Figure 3). Agilent also offers a complete solution from target enrichment to data analysis (with GeneSpring NGS) for a complete workflow.

### Faster Sample Prep



**Figure 3.** The chart represents the time for library preparation and target enrichment for a single sample. Samples can be prepared 3 times faster with SureSelect.

Product	Part No.
SureSelect TE Reagent Kit, PTN, 16 rxn	G9605A
SureSelect TE Reagent Kit, PTN, 96 rxn	G9605B

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