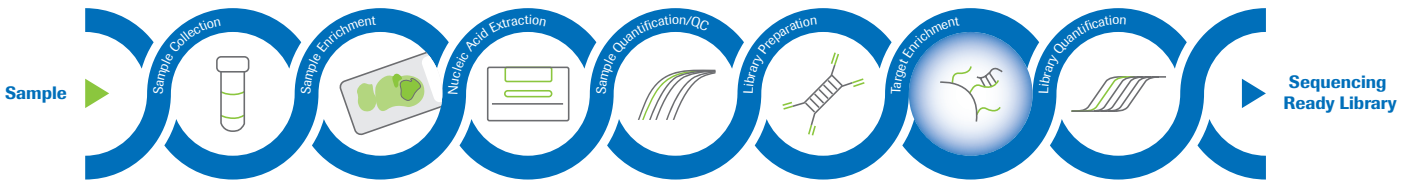
SeqCap EZ Inherited Disease Panel

Uniform coverage of disease-associated genes

SeqCap EZ Inherited Disease Panel is an optimized hybridization-based panel for NGS that targets the exonic regions of over 4,100 medically relevant genes comprising 11.8 Mb of capture target. This panel delivers highly uniform sequencing coverage for genes in the Online Mendelian Inheritance in Man (OMIM) database that are associated with Mendelian disease, as well as content from scientific collaborators.

- **Disease-associated genes for rare and common diseases** are covered, including diseases with dominant, recessive, and X-linked inheritance patterns
- **Multiplexing up to 12 samples** yields equivalent single-plex performance
- **The HyperCap Workflow with SeqCap EZ Inherited Disease Panel** streamlines the production of target-enriched libraries, and ensures integrated support and one-source purchasing from a single, trusted vendor



Enhance sequencing efficiency

- Achieve 45X coverage of target regions with 7M reads per sample
- Increase efficiency and decrease sequencing costs with uniform panel coverage for up to 12 multiplexed samples

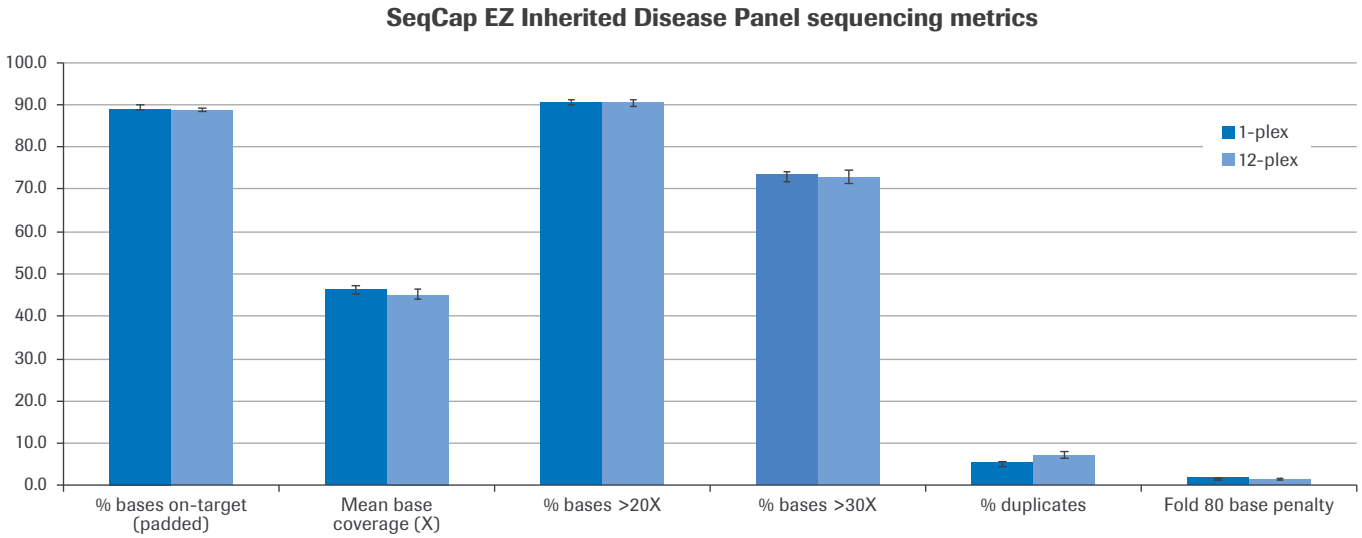


Figure 1. The SeqCap EZ Inherited Disease Panel performs equally well in single-plex and 12-plex experiments. Target-enriched libraries were prepared using 100 ng of HapMap NA12891 DNA as input into the HyperCap Workflow v2, using the HyperPrep Kit, KAPA Dual-Indexed Adapters, and Roche Universal Blocking Oligos. Captures were performed either individually or in sets of 12 samples. Bars represent the mean of triplicate captures ±SD. Sequencing was performed using an Illumina® HiSeq® 4000 Instrument with 2 x 150 bp read length. Reads were randomly subsampled to 7M reads per sample for comparative analysis.

SeqCap EZ Design Share: Inherited Disease Panel

SeqCap EZ Inherited Disease Panel is part of Roche Sequencing Solutions' Design Share Portfolio. Design Share makes it easy to access pre-designed NGS panels that are developed by Roche Sequencing Solutions or in collaboration with researchers around the world. Review the full portfolio at **sequencing.roche.com/designshare**.

Learn about **the HyperCap Workflow**—an integrated, <2-day sample preparation workflow for target-enriched NGS that combines KAPA library preparation and SeqCap target enrichment probes—at **sequencing.roche.com/hypercap**.

Ordering information

Product Name	Reactions	Catalog #
SeqCap EZ Share Choice XL – Inherited Disease Panel Inherited Disease Panel Internal Reference Number: 4000024240	24	08332991001
	96	08333009001
	384	08333017001

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