EasySeq™ Human Genetics

Human DNA Sample Identification Kits

One-tube, Single Reaction NGS Library Prep for Short-Read Sequencers

Safest and Simplest NGS Library Prep Workflow

- ✓ Whole exome and whole genome sequencing
- ✓ Hereditary cancer
- ✓ Custom panels

NimaGen.

Sequencing.
Simpler. Smarter. Safer.

Embedded sample identification to support your lab's QC

- Eliminate the risk of sample misidentification in NGS workflows
- Ensure audit-proof, traceable sample identification
- Validate sample identity from source material to sequencing

Why human sample identification matters in NGS

Complex sample preparation workflows and the handling of Next-Generation Sequencing (NGS) samples make sample misidentification a significant concern.

One-tube, single reaction NGS library prep

EasySeq™ Human DNA Sample Identification Kits use patented Reverse Complement - PCR technology (RC-PCR) for reliable sample identification and tracking in a fast, one-tube sequencing assay.

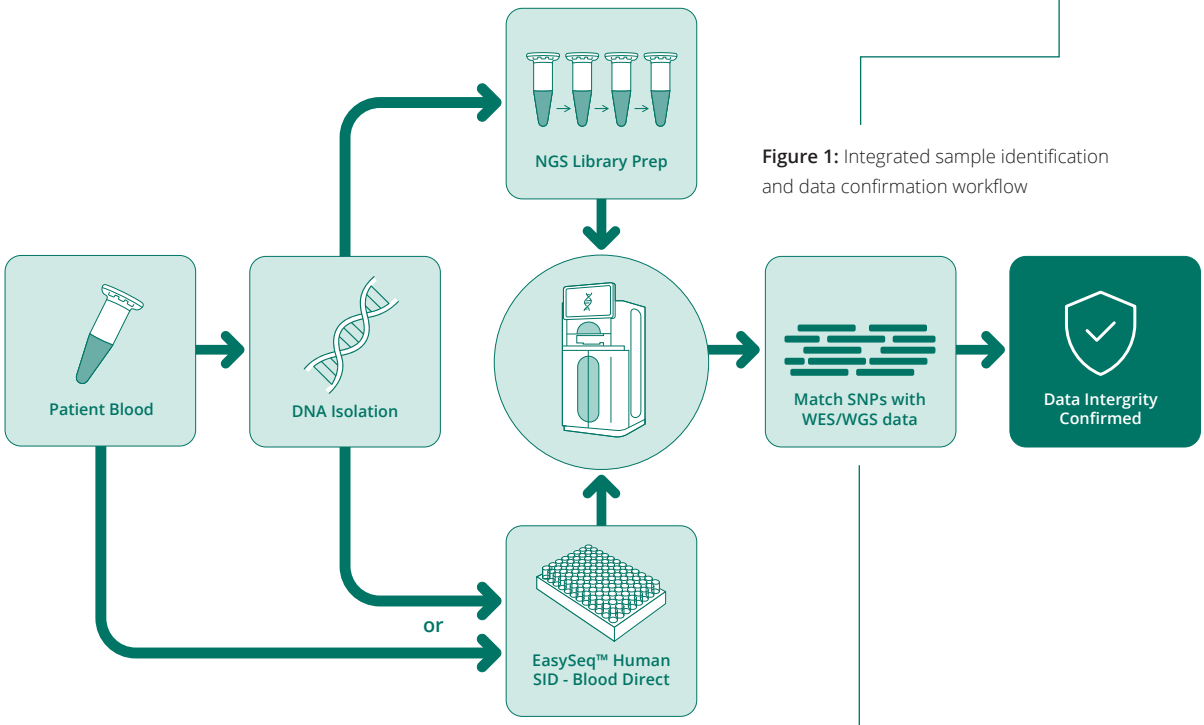


Figure 1: Integrated sample identification and data confirmation workflow

Genuinely different

NimaGen's RC-PCR technology does something genuinely different. It collapses what has traditionally been a multi-step, error-prone library prep process into a single closed-tube reaction.

Timothy Kupferschmid - Sr. Director, Genetic Identity at Promega Corp.

Learn more about RC-PCR, our single reaction library prep technology →

NimaGen.

Fewer pipetting steps lead to lower error risk

- Stay on schedule by protecting your run and avoiding duplicates
- Fast and low-risk implementation in existing workflows
- Higher throughput without increasing the workload

Simplify your NGS workflow

EasySeq™ Sample Identification integrates seamlessly into your existing NGS workflow. Sample identity tracking becomes embedded in your protocols, eliminating the need for a secondary system or extra validation steps. One PCR reaction creates a complete library, and subsequent pooling of 96 samples for cleanup cuts hands-on time by 50%.

- **One-tube, single reaction** → Reduces pipetting steps
- **Simultaneous indexing and amplification** → Safest workflow on the market
- **Integrates directly into Hereditary Cancer panels, WES and WGS** → No secondary system needed
- **Cost-efficient workflow** → Single-tube clean-up and optimal flow cell capacity

Sample identity embedded in your existing NGS workflow

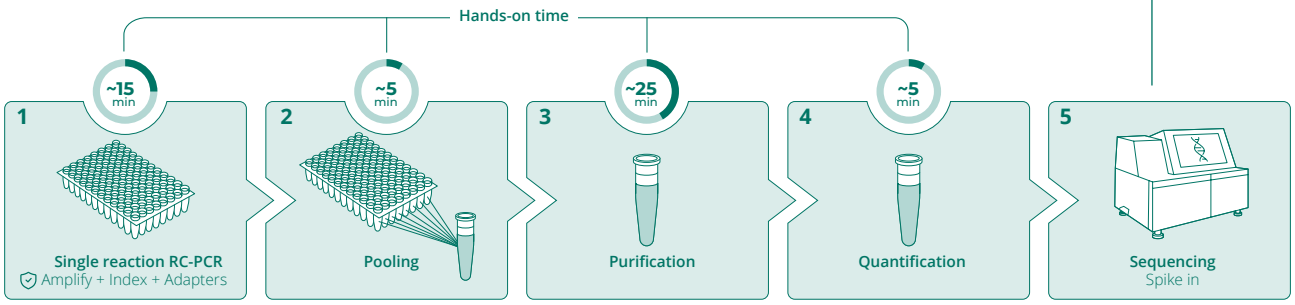


Figure 2: EasySeq™ Human SID workflow overview

Half the time, full flexibility

The EasySeq™ Sample Identification Library Prep Kit reduced our working time by 50%. Just one PCR reaction to create a complete illumina library and pooling of 96 samples for purification; that makes a big difference. With increasing sample volumes, we can now easily run twice a week without compromising our turnaround time.

Operational Group Lead, UZ Leuven Genomics Core , Belgium

Discover how to streamline your workflow →

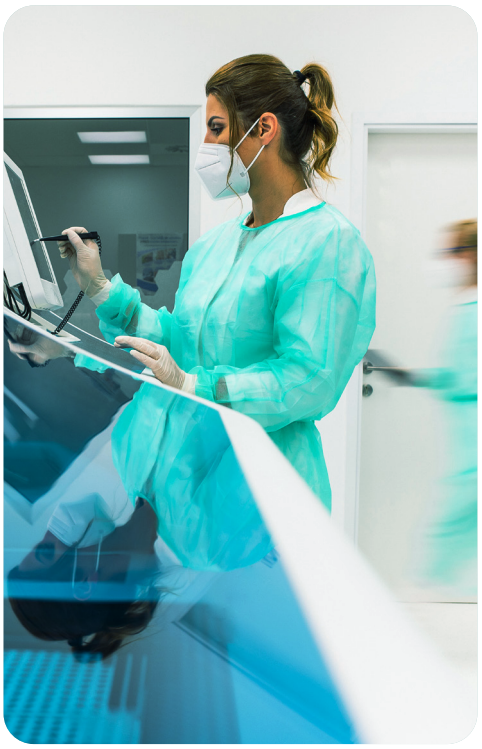
Confidence in data integrity and validity

Technology that you can trust

When a sample swap goes undetected, every result is suddenly in question. EasySeq™ Human Sample Identification removes that doubt at the source with SID for WES/WGS and hereditary cancer. The SNP panel is built around markers with a high minor allele frequency, giving each sample a genetic fingerprint with strong discrimination power. The Blood Direct variant extends the chain of custody from DNA isolation onward. The 10 bp UDIs control index hopping without adding extra steps or hands-on time.

Features of the WES/WGS panel

- **37 exonic high-MAF SNPs** → Strong discrimination power
- **3 XY targets** → Additional gender determination
- **Closed-tube reaction** → Swap risk minimized
- **Blood Direct** → Full chain of custody
- **Pre-spotted dehydrated UDI plates** → Avoid index contamination
- **10 bp UDI** → Controls index hopping
- **cfDNA and FFPE** → Reliable ID on challenging inputs



Stay flexible and scale up

Your sequencing infrastructure is in place, and EasySeq™ fits seamlessly into WES, WGS, and Hereditary Cancer sample tracking. For other panels that require sample identity confirmation, custom kit options can be requested or discussed.

Advantages of EasySeq™ Human SID

- Swift creation of custom ID panels
- Compatible with major short-read sequencers
- No secondary system required
- Six variants of breakable UDI plates
- Scales up to 576 samples per run

Easily integrated into our existing NGS workflow

The end product is easy to use, very flexible, highly scalable and provides reliable genetic profiles to ensure sample identity. As a cost-effective solution with minimal hands-on time, the kit could be easily integrated into our existing NGS workflow.

MVZ Labor Krone, Bad Salzuflen, Germany

For labs that want **the numbers**

Download the technical performance sheet (PDF) →

Simplify your NGS workflow

The kit provides a safe, robust and simple workflow, combining amplification with indexing and adapter addition in a single reaction, decreasing the risk of PCR contamination and sample swapping in quality control steps. Sample identity becomes embedded in your existing NGS workflow.

Compatible with major short-read sequencers

WES/WGS Workflows
+ Blood Direct Option

Hereditary Cancer Kit

Custom Kit

ORDER NOW

ORDER NOW

MORE INFO

Test it yourself Request a sample

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Ordering Information

EasySeq™ Human DNA Sample Identification Kits

Part Number	Description
RC-SID096	EasySeq™ Human DNA Sample ID Kit 96 rxn
RC-BDSID096	EasySeq™ Human DNA Sample ID Blood Direct Kit 96 rxn
RC-SIDHC096	EasySeq™ Human DNA Sample ID Hereditary Cancer Kit 96 rxn

Note: Each kit contains 1 panel/sample (96 rxn), including PCR Master Mix and Probe Dilution Buffer.

Magnetic Beads for NGS Library Clean-up

Part Number	Availability	Description
AP-005, AP-050, AP-500	5 mL, 50 mL, 500 mL	AmpliClean™ Cleanup Kit Magnetic Beads

Note: AmpliClean™ Magnetic Beads: required, ordered separately.

Unique Dual Index Primer Plate 96 rxn

Part Number	Unique Dual Index numbers	Part Number	Unique Dual Index numbers
IDX96-U01	UDI #0001-0096	IDX96-U04	UDI #0289-0384
IDX96-U02	UDI #0097-0192	IDX96-U05	UDI #0385-0480
IDX96-U03	UDI #0193-0288	IDX96-U06	UDI #0481-0576

Note: On request we can increase the number of unique numbers and plates to 8 x 96.

Company Information

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Product Names

EasySeq™ Human DNA Sample ID Kit 96 rxn
EasySeq™ Human DNA Sample ID Blood Direct Kit 96 rxn
EasySeq™ Human DNA Sample ID Hereditary Cancer Kit 96 rxn
AmpliClean™ Cleanup Kit Magnetic Beads
Unique Dual Index Primer Plate 96 rxn

Product Use

For Research Use Only

Version 3.0 - June 2026

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