



## Identify causal variants with confidence

Two complementary technologies — one seamless workflow

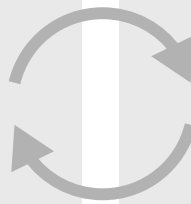
Clinical research labs can choose from multiple options to study human genetic diseases based on the levels of phenotypic heterogeneity observed.

Options include analyzing single genes by Sanger sequencing or targeted gene panels using next-generation sequencing (NGS).

### What technology best fits your clinical research needs?

#### Choose Sanger sequencing when you need to:

- Study diseases with clearly defined phenotypes
- Sequence 1 or 2 genes or up to 96 targets
- Sequence 1–96 samples at a time without barcoding
- Confirm NGS variants with up to 99.99% accuracy
- Get longer read lengths (up to 1,000 bp)



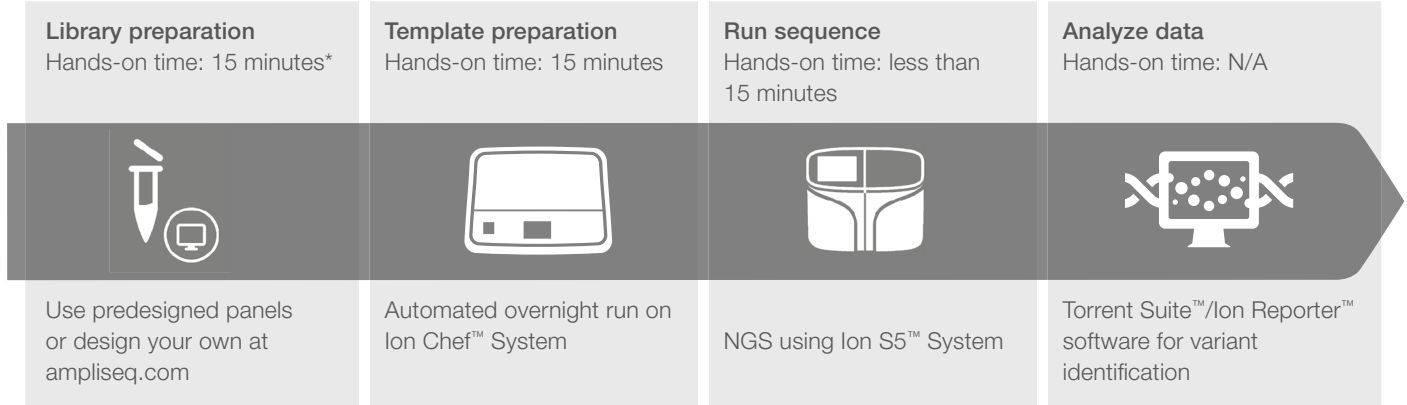
#### Choose NGS when you need to:

- Study diseases with higher levels of phenotypic heterogeneity
- Sequence more than 2 genes or more than 96 targets
- Sequence more than 96 samples for multiple targets
- Discover novel variants

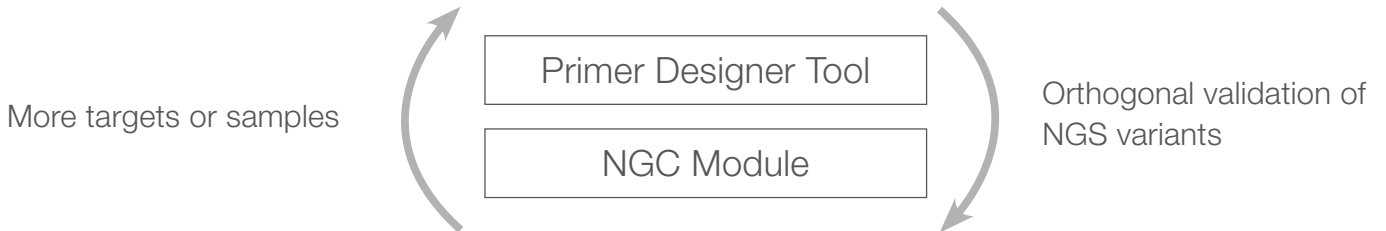
**End-to-end genetic analysis solutions for your clinical research lab**

To make it easier to confirm Ion Torrent™ NGS variants with Sanger sequencing, we provide direct links from the Torrent Suite™ Variant Caller plug-in into the Primer Designer Tool, so ordering primer pairs for your final list of variants is easy and seamless.

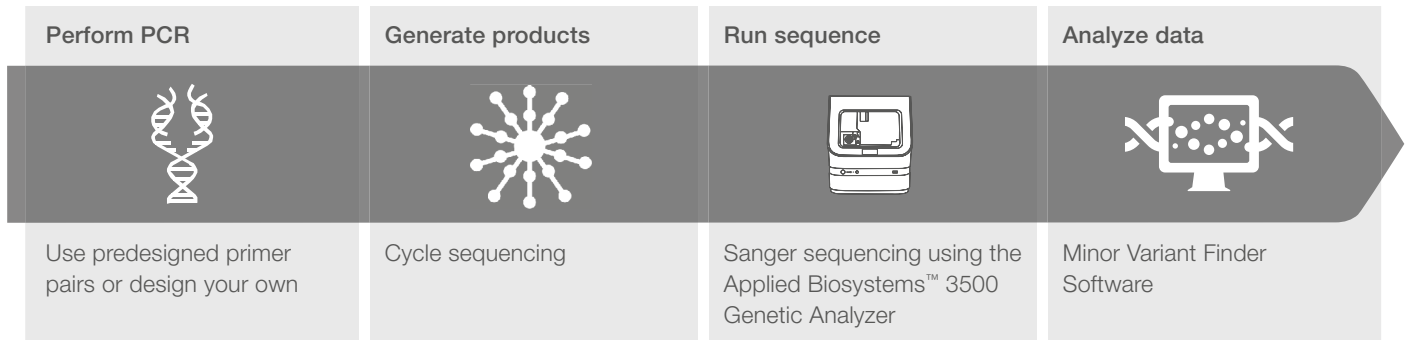
**NGS workflow**



\* Automated library preparation of any 2-pool Ion AmpliSeq panel on the Ion Chef System.



**Sanger sequencing workflow**



Talk to your sales representative about how you can empower your clinical research lab with our complete suite of sequencing solutions.

Rep name [5 lines max]

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