PureTarget™ design, powered by Integrated DNA Technologies (IDT)

Target smarter guide RNAs for long-read sequencing, without the guesswork

IDT works closely with PacBio PureTarget users to help design high-quality, confidence-ready targets optimized for long-read performance. Our design approach balances specificity, coverage, and experimental success, so you can focus on the biology, not troubleshooting assays.

What you get with IDT PureTarget support:

- Expert-guided target and probe design built for PacBio workflows
- Designs optimized for complex regions, GC-rich targets, and structural variation
- Seamless transition from design to high-quality IDT synthesis

Whether you are building a new panel or refining an existing one, IDT helps ensure your PureTarget design is right the first time.

To connect with IDT scan the QR code or visit **idtdna.com/ContactUs**

From concept to data, IDT helps accelerate discoveries

From target selection to synthesis, we support every step of the PureTarget design pipeline, removing complexity so you can move faster from concept to confident results.

Amplification-free target enrichment workflow

1. Start with high molecular weight DNA extracted from human blood or lymphoblastoid cells with Nanobind kits

2. Dephosphorylate to block DNA ends

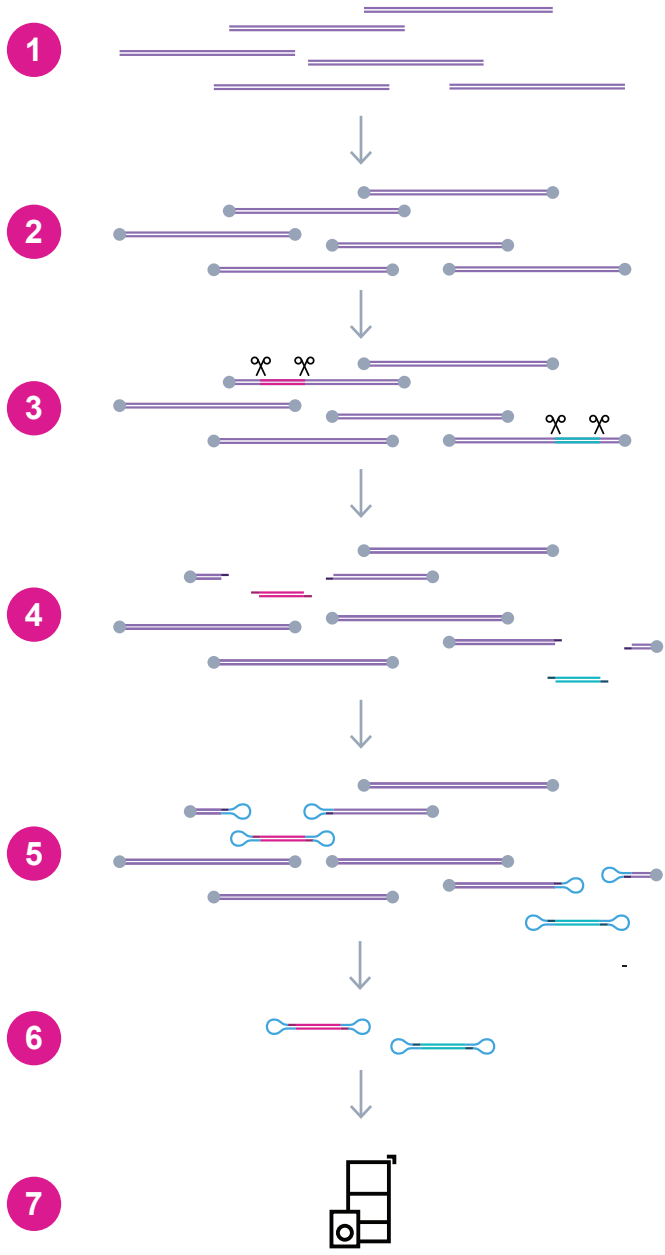
3. Cut DNA with Cas9 and pair of guide RNAs on each side of target

4. Add dA tail

5. Ligate indexed SMRTbell adapters

6. Remove non-SMRTbell templates with nuclease digestion

7. Pool and sequence up to 96 samples on Revio +SPRQ or up to 48 samples on Vega



Start designing with confidence.

Discover how IDT supports your PureTarget workflow.

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