



IVDr Whole Exome Sequencing

NEW in our portfolio: IVDR compatible workflow



The Twist Precision Exome Dx Kit is a complete, IVDR-compliant solution for WES library preparation and target enrichment

- **A Class A IVD workflow can be used in higher classification IVDs.** The Class A IVD workflow is used for a low-risk application.
- For example, the Twist Precision Dx Products are reagent kits used for the preparation of DNA for downstream analysis by NGS sequencing, but it cannot be used to perform the genetic testing itself such as to identify or rule out a specific genetic or chromosomal condition.

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In November 2023, Twist received IVDR Approval under the Class A classification for the **Twist Precision Dx Products** which is the collective term for three configurations:

Configuration	Content
Twist Precision Exome Dx Kit	<ul style="list-style-type: none">● Reagents for enzymatic fragmentation, library preparation, and target enrichment● Targeted capture probes for exome enrichment
Twist Precision Prep and Enrichment Dx Kit	<ul style="list-style-type: none">● Reagents for enzymatic fragmentation, library preparation, and target enrichment
Twist Precision Exome Dx Panel	<ul style="list-style-type: none">● Targeted capture probes for exome enrichment

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Twist Precision Exome Dx Products

- Twist Precision Exome Dx Kit
- Twist Precision Prep and Enrichment Dx Kit
- Twist Precision Exome Dx Panel

Key Features:

- Enrichment probes covering 37.7 Mb targets in the human genome
- 98% of target bases covered $\geq 30X$
- Enzymatic fragmentation and library preparation reagents

Key Specifications:

- **Comprehensive Coverage**
 - >97% coverage of the CCDS, RefSeq, Gencode and Ensembl v101 database
 - Expanded coverage of mitochondrial genome
- **Reliable performance**
 - Consistent yield from high-complexity libraries
 - Uniform enrichment of target regions
 - NGS QC of all probes
- **Flexible**
 - Twist Precision Prep and Enrichment Dx Kit is panel agnostic
 - Stand-alone Twist Precision Exome Dx panel can be integrated with other workflows
 - Twist Precision Exome Dx Kit provides a fully validated Library Preparation and Exome Target enrichment workflow
- **IVDR Compliant**
 - Compliant with EU IVDR 2017/746 regulations
 - Demonstrated quality of kit materials