

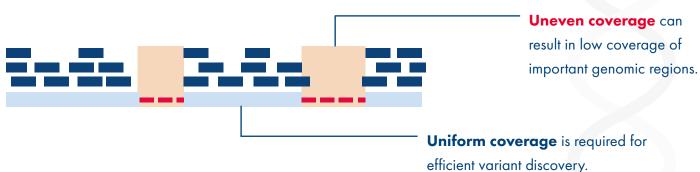
We've got you covered

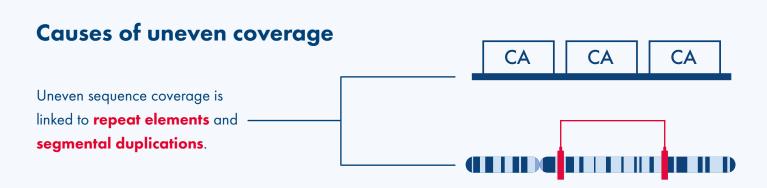
With the QIAseq® Human Exome solution for rare variant detection

>60% of disease-causing mutations are found in protein-coding regions of the genome.

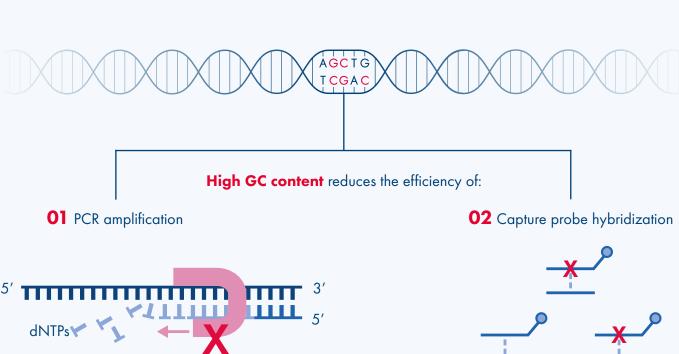
Compared to whole genome sequencing (WGS), whole exome sequencing (WES) focuses on coding regions, offering powerful variant detection power while reducing time and expense.

Uniform sequencing coverage is crucial





But is mainly attributed to >65% GC content



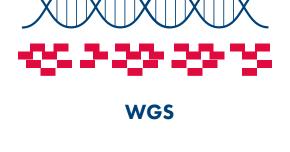
Overcoming GC bias

minimize GC bias, giving uniform exome coverage.

Plus, **QIAseq Human Exome** provides many reads

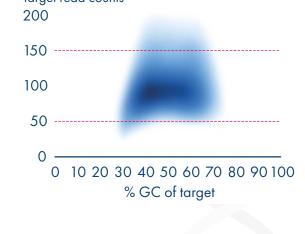
The **QIAseq Human Exome** solution is optimized to

per position, delivering WGS-quality variant data without the expense.



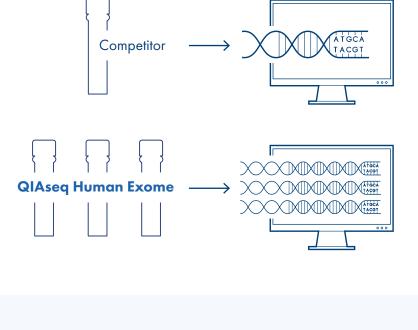
just ~5 Gb of data.

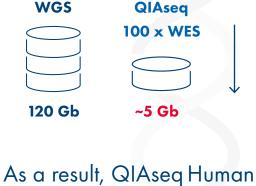
QIAseq Human Exome Target read counts





QIAseq Human Exome reduces sequencing needs by 50%, allowing more samples per run but produces





Exome reduces costs by 30-50%

QIAseq Human Exome was built with researchers' needs in mind



tissue, saliva, FFPE and cfDNA 50% reduction in sequencing costs

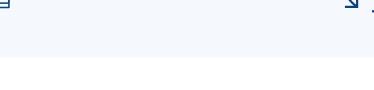
6 sample types supported: gDNA

derived from whole blood, cells,



with automation and scalable

1-day workflow, compatible





33% less time than competitors

References

1. Wang, Q. et al. (2017) Novel metrics to measure coverage in whole exome sequencing datasets reveal local and global non-uniformity. Sci. Rep. 7, 885. 2. Chilamakuri, C.S., et al. (2014) Performance comparison of four exome capture systems for deep sequencing. BMC Genomics. 15, 449.

QIAseq Human Exome Kits are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease

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