DOPlify™ WGA kit

A new generation of Whole Genome Amplification

- Robust
- Reproducible
- Simple to use and automate
- A fast, single tube system
- Reduced GC bias

Genomic analysis platforms require at least 1ng of DNA and single cells contain only 6 pg of genomic DNA. Whole genome amplification is used to replicate the complete genome to generate sufficient DNA for analysis.

The accurate interpretation of single cell data relies on the ability of the whole genome amplification to comprehensively and reliably amplify the genome.

DOPlify™ has been optimised specifically for single cell whole genome amplification. The kit is suited not just to single cells but to any low template sample, including cell free DNA and small numbers of cells.

Using the latest generation reagents that have been specifically developed for highly sensitive Next Generation Sequencing applications, DOPlify™ excels at being;

- Robust
- Reproducible
- Simple to use and automate
- A fast, single tube system
- Reduced GC bias

No lysis is needed for cell-free DNA, making DOPlify™ a single step WGA protocol readily amenable to automation.

RHS
Unique Genomic Solutions

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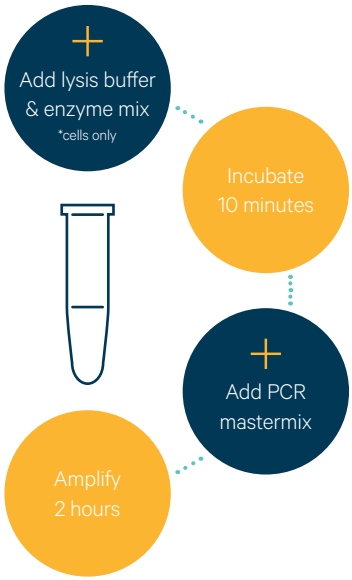
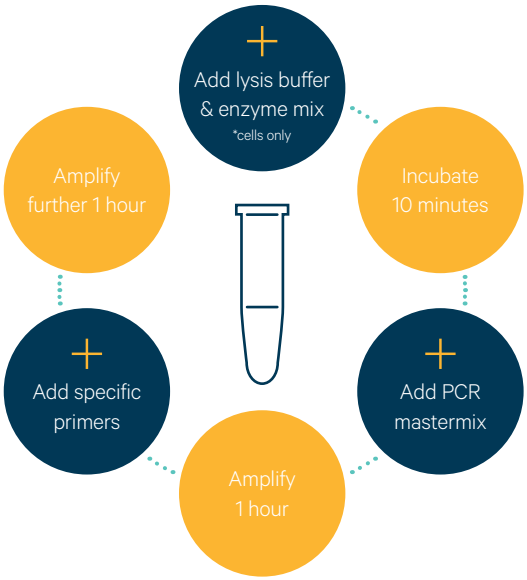
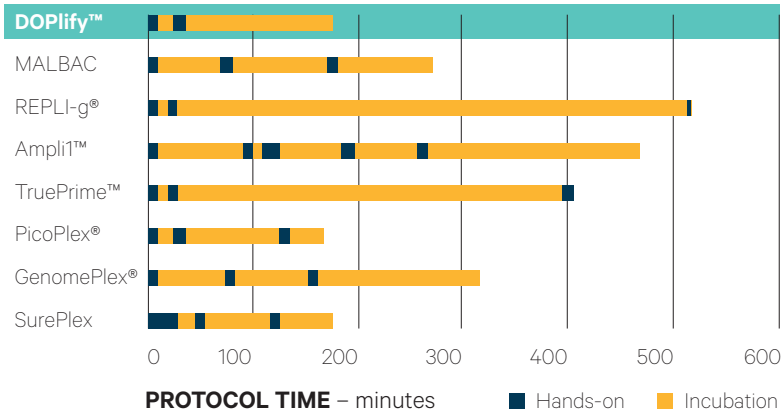
SINGLE TUBE
Whole Genome Amplification for PGS

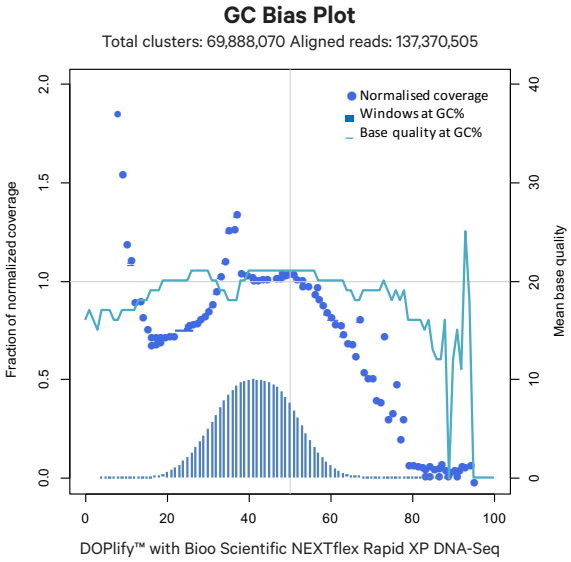


SINGLE TUBE
WGA and target sequence enrichment for PGS + PGD



- Universal amplification
- Offering flexible NGS workflows and
- Robust concurrent CNV and mutation detection





Unique to DOPlify™, regions such as genes of clinical interest, fragile sites and breakpoints, and STR and SNP markers can be concurrently amplified during the whole genome amplification program, generating a pool of amplicons specifically enriched for the target region, significantly reducing allele drop-out.

This pool can then be analysed using standard downstream analysis methods, including Next Generation Sequencing, gel electrophoresis or Sanger sequencing.

DOPlify™ is suited to a spectrum of NGS library preparation kits and both Illumina and Ion Torrent sequencers.

A unique solution for genomic DNA amplification to support all of your downstream technologies; microarrays, qPCR, NGS.

DOPlify™ provides high fidelity, robust, reproducible, accurate, unambiguous results with a workflow that is automatable and easy to use.

Ordering information

RHS DOPlify™ 50 reaction kit
Cat # RHS4050
Order online at www.rhsc.com.au

DOPlify™ is for research use only and is not for use in diagnostic procedures.

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