



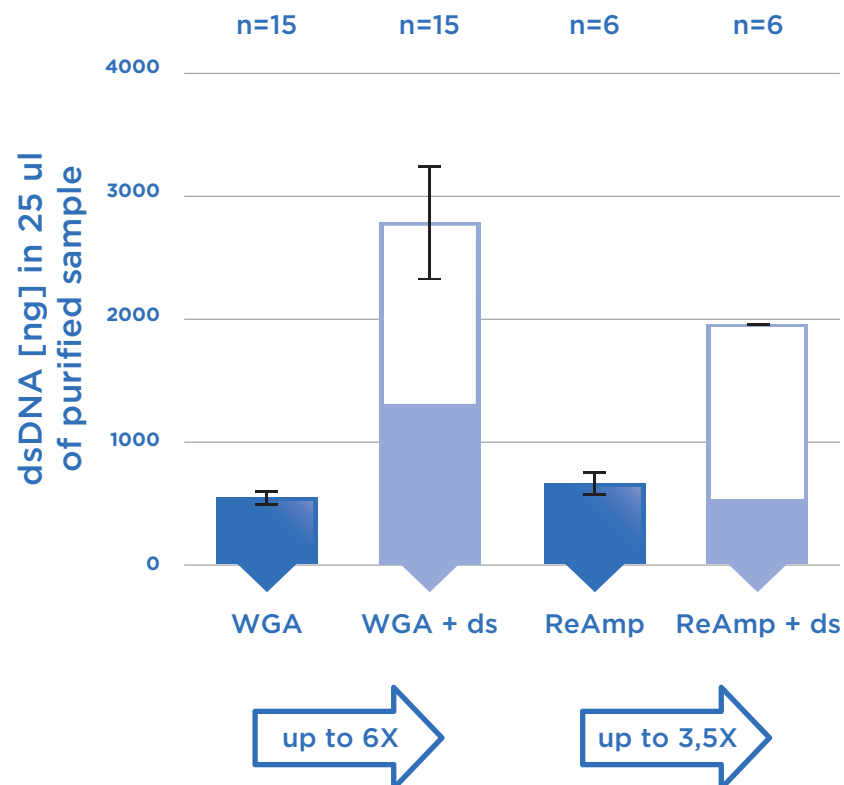
Ampli 1™
ReAmp/ds Kit

Ampli™ ReAmp/ds Kit is designed to:

- **Reamplify the Ampli™ WGA product** obtained from single cells or from batch of cells, in a reliable and reproducible way. The reamplification will provide further WGA-amplified DNA from the same cell; for downstream genetic analysis use the Ampli™ Reamplification product exactly as Ampli™ WGA product;
- **Convert ssDNA molecules into dsDNA molecules** both in Ampli™ WGA products and in Ampli™ Reamplification products, and increase the total dsDNA content. This procedure is recommended for accurate DNA quantitation, high-throughput high dimensional downstream analysis and NGS applications in general, ensuring higher sequencing uniformity.

A notable increase of Ampli™ WGA'ed DNA is achieved through ssDNA to dsDNA conversion

Ampli™ dsDNA Synthesis Effect on Single Cell Whole Genome Amplified DNA



- Assessment of dsDNA quantity among n=15 single cells, comprised TCs and WBCs (fresh, PFA2%-fixed and CellSearch®-fixed) from Ampli™ WGA Kit, shows that the dsDNA synthesis allows a relevant increase (up to 6X) of the dsDNA content of Ampli™ WGA products in short time (30 minutes);
- Similarly, for n=6 Ampli™ WGA reamplification products from 2 single TCs (3 technical replicates of ReAmp per sample) a good increase of dsDNA content is reported following 30' dsDNA synthesis (up to 3,5X).

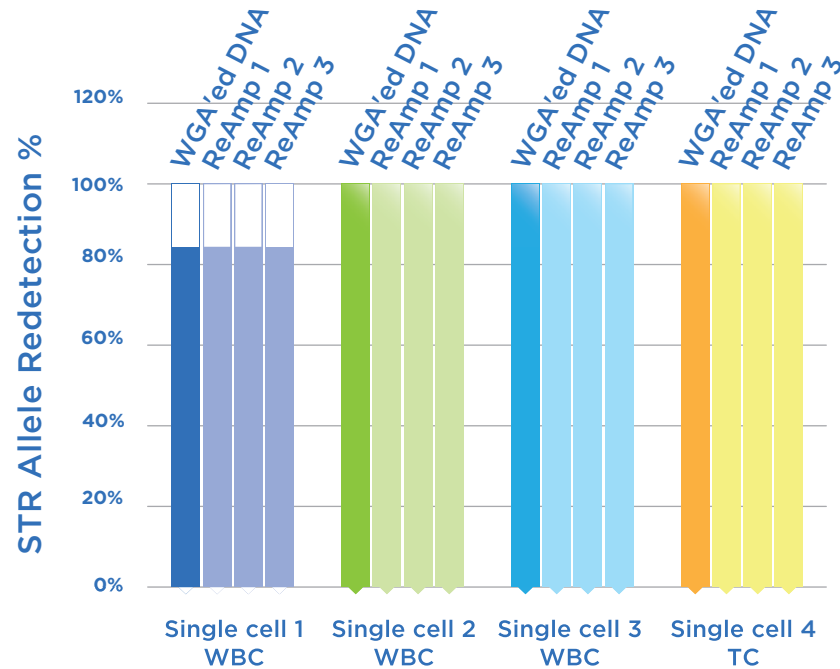
The Ampli™ ReAmp/ds Kit ensures the conversion of ssDNA molecules into dsDNA molecules in Ampli™ WGA/ReAmp products population in a quick and reproducible way, yielding amounts of single cell WGA'ed dsDNA suitable for high-throughput high dimensional downstream analysis.



Ampli 1™
ReAmp/ds Kit

Ampli 1™ single cell WGA products are reamplified while maintaining genetic representation

Ampli 1™ Reamplification Effect on Single Cell STR Profile



For n=67 alleles detected with *Ampli 1™* STR Kit in *Ampli 1™* WGA products from n=4 single cells, comprised of 1 TC and 3 WBCs from different treatments (fresh; PFA2%-fixed; CellSearch®-fixed) 100% of alleles were redetected after WGA reamplification among 3 technical replicates per sample.



The *Ampli 1™* ReAmp/ds Kit provides a balanced reamplification of *Ampli 1™* WGA DNA libraries from single cells, without detectable allelic drop-outs when compared to the initial *Ampli 1™* WGA product



The *Ampli 1™* ReAmp/ds Kit

Notices and Disclaimers: *Ampli 1™* WGA Kit and *Ampli 1™* ReAmp/ds Kit are for Research Use Only and not intended for use in diagnostic procedures. CellSearch® is a registered trademark of Janssen Diagnostics, LLC.

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