

LocIn

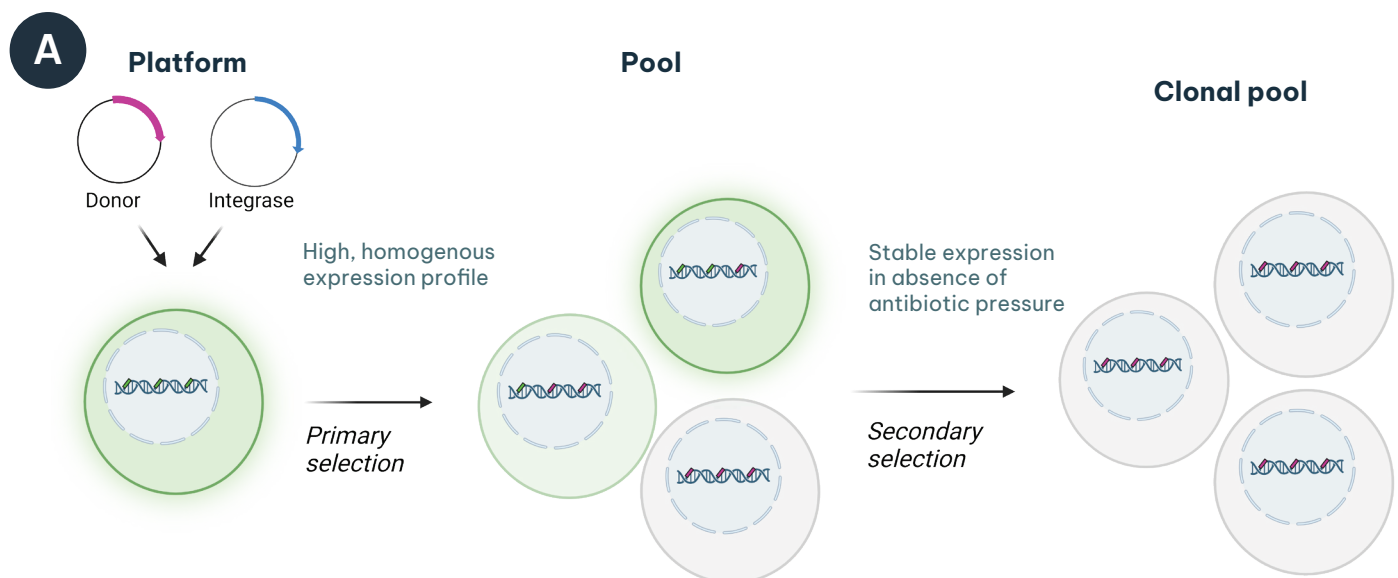
A targeted integration system that delivers speed, uniformity and control

LocIn is an advanced targeted integration system that allows the efficient generation of genetically identical isogenic mammalian cell lines. LocIn's unique targeted integration and selection systems remove the need for the subcloning and analysis of clones, reducing both the time and effort required for cell line generation, without compromising quality.

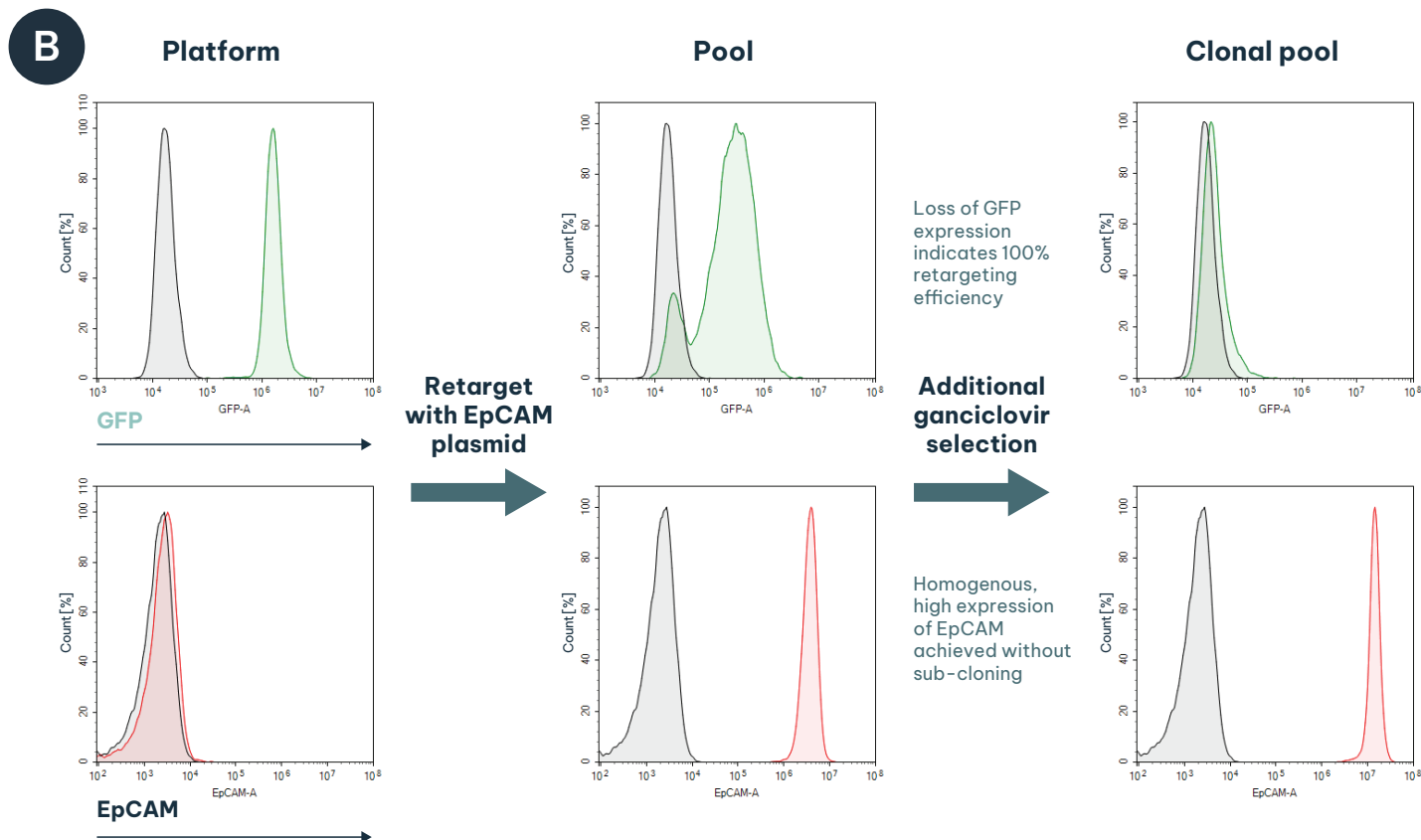
Key features of LocIn:

- **Speed:** Achieve faster cell line engineering, cutting out the time-consuming sub-cloning step.
- **Uniformity:** Get consistent results every time, with the same integration pattern across all cell lines.
- **Control:** Reduce integration site artefacts and variability for more reliable results.
- **Flexible platforms:** Choose from single or multi-platform systems for low or high expression needs, with complete control over your cell line generation process.

Unlock precision in cell engineering



- A. The system utilises landing pads integrated into the genome of the platform cell line. These landing pads express a fluorescent marker such as GFP which allows us to generate and characterise a clonal platform cell line up front, based on the expression of GFP. When the platform cell line is retargeted using a donor plasmid and the integrase, the GFP is replaced with our gene of interest. By using secondary ganciclovir selection we are able to ensure all landing pads have been retargeted and the final cell line is a clonal pool, without the need for subcloning.



B. Example retargeting data using a construct expressing EpCAM. Loss of GFP expression demonstrates 100% retargeting has been occurred. In the final clonal pool, high, homogeneous expression of EpCAM has been achieved without the need for subcloning.

Application



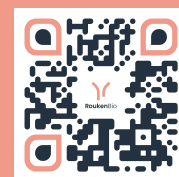
Generate high expressing cell lines without the need for sub-cloning.



Compare different construct designs accurately without variation introduced by integration pattern differences.

Take control of cell engineering with LocIn

Find out more about LocIn in action – access our technical presentation to explore real data.



RoukenBio - The CRO redefined

Backed by our brilliant minds, we have turned the traditional CRO model on its head, by fostering a collaborative and personalised approach. Our mission is simple:

Solve problems. Deliver quality data. Propel your drug discovery breakthroughs.

United by a passion to make sense of complexities and overcome challenges, we apply our specialised knowledge to big-picture thinking. We will explore every option to deliver over and above for your project.

We are thought leaders with a deep understanding of immunology, bioassays, molecular biology and a track record of groundbreaking discoveries and novel cell-based tools.