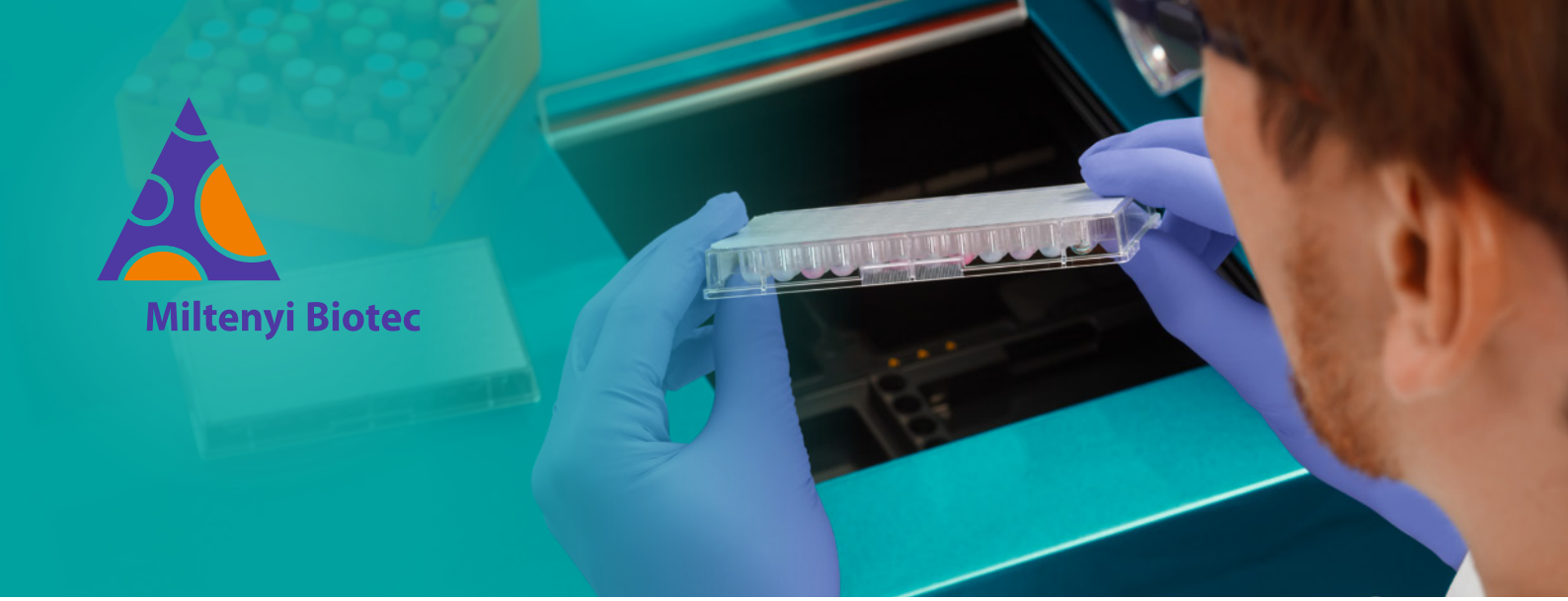


Miltenyi Biotec

REAscreen™ Design: You establish the panel and we'll do the rest!

Push-button, plug-and-play, custom antibody panels for any MACSima™ Spatial Biology Experiment

Background

When you have a large series of spatial biology experiments to run, doesn't matter how experienced you are: Setting up a unique panel in a 96-well plate format with liquid antibodies by hand is painful. Gathering together and arranging all the antibody vials, making sure you have enough of all of them, and then pipetting everything by hand is just time-consuming. We're talking – what? – at least one hour of your time to put together a panel for 40 markers. If you have a hypothesis to test, one experiment run does not make an actionable dataset though, which inevitably multiplies that time by the number of replicates you need. Pipetting the exact same panel for each of the 20 replicates is a significant time investment.

Add to that the near inevitability of a manual error in at least one of the replicates that need to be run. You could be invalidating an entire experiment run, losing you days' worth of effort, sample material, and antibodies. If any antibody unexpectedly runs out, the entire project is delayed by days as you manage stocks and reorder those vials. Quite apart from that, cliché though it might be, time is money.

You don't need that, and your business doesn't need that. That's why Miltenyi Biotec created REAscreen Design for anyone running experiments on our MACSima Spatial Biology Platform. If you're still manually pipetting your panel for repeated runs of the same experiment, this is a real game-changer, and it couldn't be simpler:

1. Establish and test the antibody panel suitable for your needs in liquid format
2. Contact Miltenyi Biotec to transfer the desired panel configuration
3. Miltenyi Biotec reviews the configuration and provides a quote
4. Order the panel and receive your individually packaged, plug-and-play REAscreen Design plates.
   From here on, just load the panel into the MACSima System along with your sample and press Start. Even the relevant procedure for the instrument software is included in the panel.

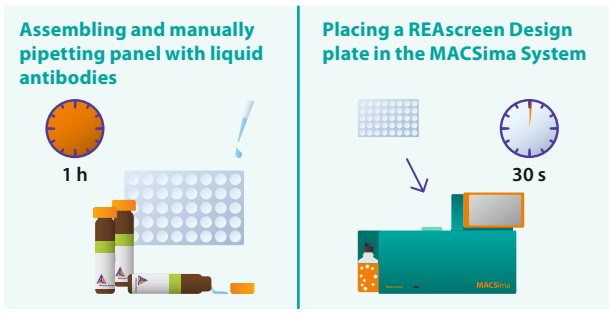


Figure 1: Time required to set up a run with liquid antibodies or with REAscreen Design

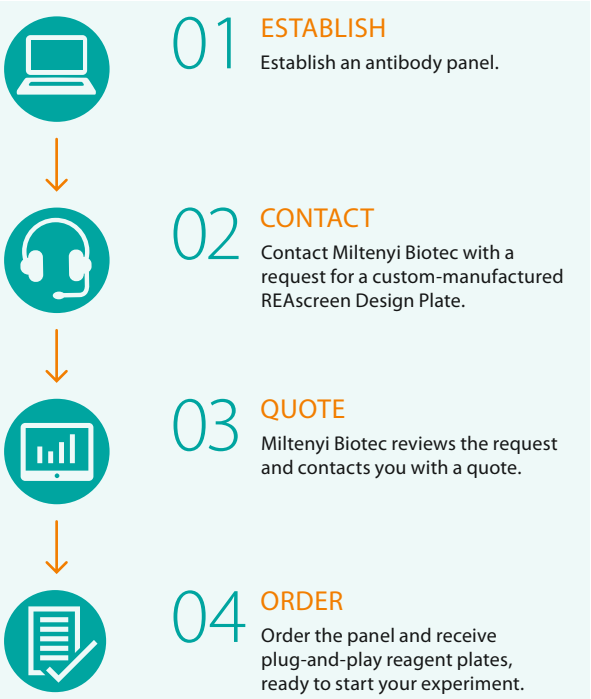


Figure 2: Process of ordering a REAscreen Design Plate

Standardized reagents for ideal reproducibility

The REAscreen Design Panel we create for you is manufactured in an automated fashion, eliminating any pipetting errors both in the amount of antibody dispensed and their identity and location on the well-plate. What's more, your defined panel configuration is further protected in our extensively tested dried format of fluorochrome-conjugated antibodies in sealed 96-well plates. The proprietary drying buffer we developed for this format has been optimized to ensure consistent and high-quality staining results. We manufacture both the antibodies and this reagent format in house, giving you the reliability of a supply chain–free source and meaning we can ensure signal intensity performance comparability with your original liquid format. Using replicate reagent plates greatly increases reproducibility across multiple experiments.

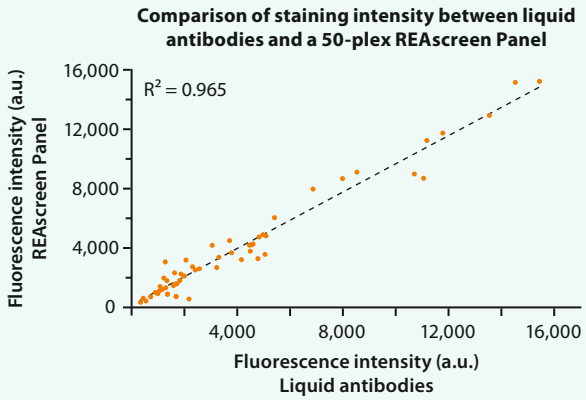


Figure 3: REAscreen Plates generate signal intensities comparable to a previously established liquid antibody panel.

Key benefits

- Save time and money with our convenient and reliable format.
- Increase reproducibility through standardized reagents.
- Simplify stock keeping: With all antibodies neatly arranged on a plate that is shelf-stable for over a year, you can stop worrying about tracking reagent usage for individual antibody vials.
- Flexibly use any established, liquid format in-house or third-party antibodies in conjuction with REAscreen Design and do only the pipetting that is absolutely necessary.

If you're running multiple spatial biology or imaging experiments, try REAscreen Design with your MACSima Platform for faster, more reliable, and more cost-effective results. It's time to get professional!

Miltenyi Biotec

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